AL.2.1986-399 c.2

COAL TECHNOLOGY INFORMATION CENTRE
LIST OF HOLDINGS
VOL. III

Alberta
RESEARCH COUNCIL

4583660

AL. 2. 1986-399

CANADIANA
C2
MAR 14 1983

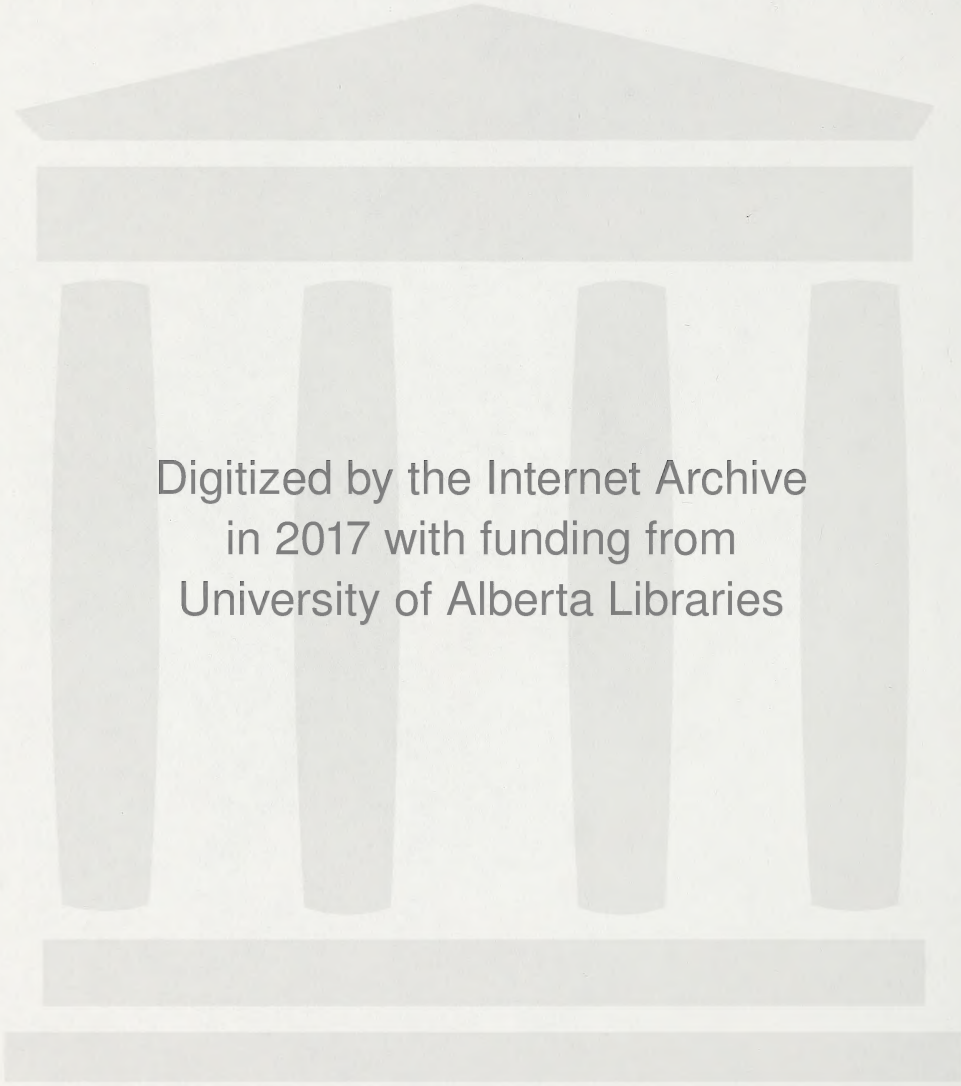
COAL-ABSTRACTS INDEX

4TH EDITION

ARC INFORMATION SERIES No. 100

1983

4583660


Digitized by the Internet Archive
in 2017 with funding from
University of Alberta Libraries

https://archive.org/details/coalabstractscoa04coal_1

INTRODUCTION

The Coal Technology Information Centre was established in April, 1978, as part of the Alberta Research Council. The Centre, which is funded by the Alberta Department of Energy and Natural Resources, (Energy Resources Research Fund) acts as an agency through which information can be furnished to Government Departments, Industry and Universities.

The objective of the Coal Technology Information Centre is to identify, collect, index, store, retrieve and disseminate information related to the winning and subsequent processing of coal. As well, as maintaining and updating a computerized searchable data bank, the Centre provides a published cumulative edition and a semi-annual update of the Coal-Abs Index.

The published Index consists of: a List of Holdings, Keyword Index, Author Index and Corporate Author Index.

LIST OF HOLDINGS - consists of identifier, title, author, source and other revelant information related to each document in the data bank.

example:

0178 84 (*) Article, Gasification

Design considerations for an in-situ gasification test of Eastern bituminous coals
By Strickland, L.D. / Martin, J.W. / Liberatore, A.J.
Morgantown Energy Research Centre, Morgantown, West Virginia
Proceedings of the 13th Intersociety Energy Conversion Engineering Conference, Volume 1, San Diego, California, p. 355-365 Aug. 1978

(*) means a table of contents for this document is available on-line

(a) Identifier:

List of Holdings is arranged in separate subject categories. The first two numbers of the identifier are a number code indicating one of the eleven different subject classifications.

01 GASIFICATION
02 LIQUEFACTION
03 BENEFICIATION
04 MINING
05 ENVIRONMENT
06 COMBUSTION
07 GEOLOGY
08 TRANSPORTATION
09 EXPLORATION
10 PROPERTIES
11 ENERGY POLICY

The second set of two numbers indicate the year the document was published. Citations are listed under each subject category in descending chronological order.

(b) Abstracts:

Abstracts of all documents in the Index are available in a printed or on-line format, at the Coal Technology Information Centre.

(c) Keywords:

Specific keywords have been assigned to some of the documents in the data bank and they are also available on-line.

KEYWORD INDEX - consists of an alphabetical listing of keywords followed by the identifier, title and report number of the document in which they appear. These citations are also listed in descending chronological order.

AUTHOR INDEX - consists of an alphabetical listing by author surname.

CORPORATE AUTHOR INDEX - consists of an alphabetical listing by corporate author phrase. Citations are listed in descending order.

The Centre maintains a full copy of the original article for reference purposes. All material in the data bank can be photocopied for a small service charge.

Any on-line search requests can be conducted through the Coal Technology Information Centre.

For further information contact:

Jane Ballash or Leslie Black

COAL TECHNOLOGY INFORMATION CENTRE
11315 - 87 Avenue
Edmonton, Alberta
T6G 2C2

Telephone: - (403) 439-5916
ext. 235

0656 0 Report, Combustion

A review of European work on solid fuel gas turbines
By Mitchell, E.R. Canada Department of Mines and Technical Surveys, Ottawa, Ontario
The Conference on Coal Burning Turbines, McGill University, Montreal, Quebec, Nov. 1956
Report No.: CDMT.FRL-255

0656 1 Report, Combustion

Indirect Fired Gas Turbines
By Mordell, D.L.
The Conference on Coal Burning Turbines, McGill University, Montreal, Quebec, Nov. 1956

0662 0 Article, Combustion

Mass transfer in a catalyst pellet during regeneration
By Ausman, J.M. / Watson, C.C. University of Wisconsin, Madison, Wisconsin
Chem Eng Sci, Vol. 17, p. 323-329, 1962

0663 0 Conference proceedings, Combustion

A laboratory method of evaluating factors affecting tube bank fouling in coal fired boilers
By Attig, R.C. / Barnhart, D.H.
International Conference on the Mechanism of Corrosion by Fuel Impurities, Marchwood, England, May, 1963, 19p., 1963

0665 0 Conference proceedings, Combustion, Environment

Utilization of solid fuel having lignite type ash
By Duzy, A.F. / Walker, J.B. Babcock & Wilcox Company, Barberton, Ohio
Lignite Symposium, Bismarck, North-Dakota, April 29/20, 1965, 25p., 1965
Report No.: B&W paper No. BR-829

0667 0 Book, Combustion

Combustion of pulverised coal
By Field, M.A. / Gill, D.W. / Morgan, B.B. / Hawksley, P.G. British Coal Utilisation Research Association, Leatherhead, Surrey, United-Kingdom, Aug. 1967

0667 1 Article, Combustion, Properties

Burning profiles for solid fuels
By Wagoner, C.L. / Duzy, A.F. Babcock & Wilcox Company, Alliance, Ohio

ASME, Pittsburg, Pennsylvania, Nov. 12/17, 1967, 8p., 1967
Report No.: ASME paper No. 67-WA/FU-4

0669 0 Patent, Combustion, Gasification

Method of recovering hydrocarbons by in situ combustion
By Messman, R.L. / Becker, K.E. / Messman, H.C.
Patent: United-States, Aug. 1971, 3599714, Sept. 1969 Appl. 862617, Sept. 1969
Report No.: P.3599714

0669 1 Conference proceedings, Combustion

Coal ash deposition studies and application to boiler design
By Attig, R.C. / Duzy, A.F. Babcock & Wilcox Company, Alliance, Ohio
The American Power Conference, April, 1969, 11p., 1969
Report No.: B&W paper No. BR-889/TPS-4

0670 0 Book, Combustion

Development of coal fired fluidized bed boilers
By Bagnulo, A.H. / Bishop, J.W. / Ehrlich, S. / Robison, E.B. Pope, Evans and Robbins, Inc., Alexandria, Virginia
United-States Department of the Interior, Washington, D.C., Feb. 1970
Report No.: OCR.36

0671 0 Report, Combustion, Environment

Laboratory studies and mathematical modeling of NO//x formation in combustion processes - Final Report
By Bartok, W. / Engelman, V.S. / del-Valle, E.G. Exxon Research and Engineering Company, Linden, New-Jersey
Environmental Protection Agency, 250p. Dec. 1971, Dec. 1971
Report No.: APTD-1168

0672 0 Book, Combustion

Sulfur dioxide free two stage coal combustion process
Applied Technology Corporation, Pittsburgh, Pennsylvania
Environmental Protection Agency, Control Systems Division, Research Triangle Park, North Carolina, Aug. 1972
Report No.: NTIS.PB-216 329

0672 1 Book, Combustion

Sulfur dioxide free two stage coal combustion process
Applied Technology Corporation, Pittsburgh, Pennsylvania
Environmental Protection Agency, Control Systems Laboratory Division, Research Triangle Park, North Carolina, Aug. 1972
Report No.: NTIS.PB-211 888

0672 2 Article, Combustion, Liquefaction

Analysis of activation energy of grouped parallel reactions
By Golikeri, S.V. / Luss, D. University of Houston, Houston, Texas
AIChE J, Vol. 18, No. 2, p. 277-281, March 1972

0673 0 Conference proceedings, Combustion, Gasification

Proceedings of the Third International Conference on Fluidized bed Combustion

Office of Research and Development, United-States Environmental Protection Agency, Washington, D.C., Dec. 1973
Report No.: NTIS.PB-231 977

0673 1 Conference proceedings, Combustion

Bench scale development of combustion and additive regeneration in fluidized beds
By Vogel, G.J. / Carls, E.L. / Ackerman, J. / Haas, M. / Riha, J. / Jonke, A.A. Argonne National Laboratory, Argonne, Illinois
Proceedings of the Third International Conference of Fluidized-bed Combustion, p. I-1-1, Dec. 1973
Report No.: NTIS.PB-231 977

0673 2 Conference proceedings, Combustion

A regenerative limestone process for fluidized bed coal combustion and desulfurization
By Hoke, R.C. / Shaw, H. / Skopp, A.
Proceedings of the Third International Conference of Fluidized-bed Combustion, p. I-2-1, Dec. 1973
Report No.: NTIS.PB-231 977

0673 3 Conference proceedings, Combustion

Combustion of coals in fluidized beds of limestone
By Rice, R.L. / Coates, N.H. Morgantown Energy Research Center, Morgantown, West-Virginia
Proceedings of the Third International Conference of Fluidized-bed Combustion, p. I-3-1, Dec. 1973
Report No.: NTIS.PB-231 977

0673 4 Conference proceedings, Combustion

The reduction of emissions of sulfur oxides and nitrogen oxides by additions of limestone or dolomite during the combustion of fluidized beds
By Wright, S.J. National Coal Board, London, United-Kingdom
Proceedings of the Third International Conference of Fluidized-bed Combustion, p. I-4-1, Dec. 1973
Report No.: NTIS.PB-231 977

0673 5 Conference proceedings, Combustion

Selective extraction of clinker at the bottom of a deep self agglomerating fluidized bed
By Godel, A.A.
Proceedings of the Third International Conference of Fluidized-bed Combustion, p. I-5-1, Dec. 1973
Report No.: NTIS.PB-231 977

0673 6 Conference proceedings, Combustion

Kinetic studies related to the use of limestone and dolomite as sulfur removal agents in fuel processing
By O'Neill, E.P. / Kearns, D.L. / Kittle, W.F. Westinghouse Research Laboratories, Pittsburgh, Pennsylvania
Proceedings of the Third International Conference of Fluidized-bed Combustion, p. I-6-1, Dec. 1973
Report No.: NTIS.PB-231 977

0673 7 Conference proceedings, Combustion

Combustion in a circulating fluid bed
By Schmidt, H.W. Lurgi Chemie und Huettentechnik, Frankfurt, Germany
Proceedings of the Third International Conference of Fluidized-bed Combustion, p. II-1-1, Dec. 1973
Report No.: NTIS.PB-231 977

0673 8 Conference proceedings, Combustion

Disposal of solid wastes by fluidized bed combustion
By Copeland, G.G. Copeland Systems, Inc.
Proceedings of the Third International Conference of Fluidized-bed Combustion, p. II-2-1, Dec. 1973
Report No.: NTIS.PB-231 977

0673 9 Conference proceedings, Combustion

Fluidized bed combustion of municipal solid waste in the CPU 400 pilot plant
By Wade, G.L. / Furlong, D.A. Combustion Power Company, Inc., Menlo-Park, California
Proceedings of the Third International Conference of Fluidized-bed Combustion, p. II-3-1, Dec. 1973
Report No.: NTIS.PB-231 977

0673 10 Conference proceedings, Combustion

Fluidized bed combustion used in HTGR fuel reprocessing
By Baxter, B.J. / Brooks, L.H. / Hutton, A.E. / Spaeth, M.E. / Zimmerman, R.D.
Proceedings of the Third International Conference of Fluidized-bed Combustion, p. II-4-1, Dec. 1973
Report No.: NTIS.PB-231 977

0673 11 Conference proceedings, Combustion

Studies on the combustion of natural gas in a fluid bed

By Cole, W.E. / Essenhigh, R.H. Pennsylvania State University, University-Park, Pennsylvania
Proceedings of the Third International Conference of Fluidized-bed Combustion, p. II-5-1, Dec. 1973
Report No.: NTIS.PB-231 977

0673 12 Conference proceedings, Combustion, Gasification

Fluidized bed gasification - Process and equipment development
By Stewart, J.T. / Diehl, E.K. Bituminous Coal Research, Inc., Monroeville, Pennsylvania
Proceedings of the Third International Conference of Fluidized-bed Combustion, p. III-1-1, Dec. 1973
Report No.: NTIS.PB-231 977

0673 13 Conference proceedings, Combustion, Gasification

Hot sulfur removal from producer gas
By Shultz, F.G. / Lewis, P.S. Morgantown Energy Research Center, Morgantown, West-Virginia
Proceedings of the Third International Conference of Fluidized-bed Combustion, p. III-2-1, Dec. 1973
Report No.: NTIS.PB-231 977

0673 14 Conference proceedings, Combustion, Gasification

Coal gasification for clean power generation
By Archer, D.H. / Vidt, E.J. / Kearns, D.L. / Morris, J.P. / Chen, J.L.P. Westinghouse Research Laboratories, Pittsburgh, Pennsylvania
Proceedings of the Third International Conference of Fluidized-bed Combustion, p. III-3-1, Dec. 1973
Report No.: NTIS.PB-231 977

0673 15 Conference proceedings, Combustion, Gasification

Sulfur retention in fluidized beds of lime under reducing conditions
By Craig, J.W. / Moss, G. / Taylor, J.H. / Tisdall, D.E. Esso Research Centre, Abingdon, United-Kingdom
Proceedings of the Third International Conference of Fluidized-bed Combustion, p. III-4-1, Dec. 1973
Report No.: NTIS.PB-231 977

0673 16 Conference proceedings, Combustion, Gasification

The carbon dioxide acceptor gasification process - A status report - Application to bituminous coal
By Curran, G.P. / Gorin, E. Consolidation Coal Company, Library, Pennsylvania
Proceedings of the Third International Conference of Fluidized-bed Combustion, p. III-5-1, Dec. 1973
Report No.: NTIS.PB-231 977

0673 17 Conference proceedings, Combustion, Gasification

Low sulfur producer gas via an improved fluid bed gasification process
By Curran, G.P. / Pasek, B. / Pell, M. / Gorin, E. Consolidation Coal Company, Library, Pennsylvania
Proceedings of the Third International Conference of Fluidized-bed Combustion, p. III-6-1, Dec. 1973

Report No.: NTIS.PB-231 977

0673 18 Conference proceedings, Combustion

Small scale applications of fluidized bed combustion and heat transfer
By Elliott, D.E. / Virr, M.J. University of Aston, Birmingham, United-Kingdom
Proceedings of the Third International Conference of Fluidized-bed Combustion, p. IV-1-1, Dec. 1973
Report No.: NTIS.PB-231 977

0673 19 Conference proceedings, Combustion

Fluidized bed combustion utility power plants - Effect of operating and design parameters on performance and economics
By Keairns, D.L. / Tang, W.C. / Hamm, J.R. / Archer, D.H. Westinghouse Research Laboratories, Pittsburgh, Pennsylvania
Proceedings of the Third International Conference of Fluidized-bed Combustion, p. IV-2-1, Dec. 1973
Report No.: NTIS.PB-231 977

0673 20 Conference proceedings, Combustion

Application to combined cycle power production of fluid bed technology used in nuclear fuel reprocessing
By Dickey, B.R. / Buckham, J.A. Allied Chemical Corporation, Idaho-Falls, Idaho
Proceedings of the Third International Conference of Fluidized-bed Combustion, p. IV-3-1, Dec. 1973
Report No.: NTIS.PB-231 977

0673 21 Conference proceedings, Combustion, Gasification

Power generation using the Shell gasification process
By Dravid, A.N. / Kuhre, C.J. / Sykes, J.A. Shell Oil Company, Houston, Texas
Proceedings of the Third International Conference of Fluidized-bed Combustion, p. IV-4-1, Dec. 1973
Report No.: NTIS.PB-231 977

0673 22 Conference proceedings, Combustion, Gasification

Fluidized bed oil gasification for clean power generation - Atmospheric and pressurized operation
By Newby, R.A. / Keairns, D.L. / Vidt, E.J. / Archer, D.H. / Weeks, N.E. Westinghouse Research Laboratories, Pittsburgh, Pennsylvania
Proceedings of the Third International Conference of Fluidized-bed Combustion, p. IV-5-1, Dec. 1973
Report No.: NTIS.PB-231 977

0673 23 Conference proceedings, Combustion, Gasification

Fuel gasification and advanced power cycles - A route to clean power
By Robson, F.L. United Aircraft Research Laboratories
Proceedings of the Third International Conference of Fluidized-bed Combustion, p. IV-6-1, Dec. 1973
Report No.: NTIS.PB-231 977

0673 24 Conference proceedings, Combustion

A design basis for utility gas from coal
By Matthews, C.W. Institute of Gas Technology, Chicago, Illinois
Proceedings of the Third International Conference of Fluidized-bed Combustion, p. IV-7-1, Dec. 1973
Report No.: NTIS.PB-231 977

0673 25 Conference proceedings, Combustion, Gasification

The design, construction, and operation of the Abingdon fluidized bed gasifier
By Moss, G. / Tisdall, D.E. Esso Research Centre, Abingdon, United-Kingdom
Proceedings of the Third International Conference of Fluidized-bed Combustion, p. V-1-1, Dec. 1973
Report No.: NTIS.PB-231 977

0673 26 Conference proceedings, Combustion

Design of fluidized bed miniplant
By Nutkis, M.S. / Skopp, A.
Proceedings of the Third International Conference of Fluidized-bed Combustion, p. V-2-1, Dec. 1973
Report No.: NTIS.PB-231 977

0673 27 Conference proceedings, Combustion

A pressurized fluidized bed boiler development plant
By Archer, D.H. / Keairns, D.L. / Vidt, E.J. / Zahnstecher, L.W. Westinghouse Research Laboratories, Pittsburgh, Pennsylvania
Proceedings of the Third International Conference of Fluidized-bed Combustion, p. V-3-1, Dec. 1973
Report No.: NTIS.PB-231 977

0673 28 Conference proceedings, Combustion

Gas turbines for fluidized bed boiler combined cycle power plant
By Sverdrup, E.F. Westinghouse Research Laboratories, Pittsburgh, Pennsylvania
Proceedings of the Third International Conference of Fluidized-bed Combustion, p. V-4-1, Dec. 1973
Report No.: NTIS.PB-231 977

0673 29 Conference proceedings, Combustion

Combustion of residual fuel oils in fluidized beds
By Lunn, H.G. / Roberts, A.G. / Locke, H.B.
Proceedings of the Third International Conference of Fluidized-bed Combustion, p. V-5-1, Dec. 1973
Report No.: NTIS.PB-231 977

0673 30 . Conference proceedings, Combustion

Fluidized bed air heaters for open and open/closed gas turbine cycles
By Harboe, H. Stal-Laval (G.B.) Ltd., United-Kingdom
Proceedings of the Third International Conference of Fluidized-bed Combustion, p. V-6-1, Dec. 1973
Report No.: NTIS.PB-231 977

0674 0 Book, Combustion

Energy Conversion from coal utilizing CPU 400 Technology
Combustion Power Company, Inc., Menlo-Park, California
Office of Coal Research, Department of the Interior, Washington, D.C., Nov. 1974
Report No.: NTIS.PB 237 028

0674 1 Book, Combustion

Pressurized fluidized bed combustion
National Research Development Corporation, London, United-Kingdom
Office of Coal Research, Department of the Interior, Washington, D.C., R & D Report No. 85, Interim No. 1, 1974
Report No.: NTIS.PB-235-591

0674 2 Book, Combustion, Environment, Gasification

Assessment of the Potential of Clean Fuels and Energy Technology
By Hall, E.H. / Choi, P.S.K. / Kropp, E.L. Battelle Columbus Laboratories, Columbus, Ohio
EPA, Office of Research and Development, Washington, D.C., Feb. 1974
Report No.: NTIS.PB-239 970

0674 3 Report, Combustion

Developing a fluidized bed boiler
By Ehrlich, S. / McCurdy, W.A.
Proceedings of the 9th Intersociety Energy Conversion Engineering Conference, San Francisco, Aug. 1974

0674 4 Book, Combustion

Power Plant utilization of coal - A Battelle Energy Program Report
By Locklin, D.W. / Hazard, H.R. / Bloom, S.G. / Nack, H.
Battelle Columbus Laboratories, Columbus, Ohio, Sept. 1974

0674 5 Book, Combustion

Energy Conversion from coal utilizing CPU 400 technology
Combustion Power Company, Inc., Menlo-Park, California
Office of Coal Research, Department of the Interior, Washington, D.C., Oct. 1974

Report No.: NTIS.PB-235 817

0674 6 Article, Combustion

Coal Properties bearing on combustion
By Mitchell, E.R. Canada Department of Energy, Mines and Resources, Ottawa, Ontario
Symposium on Coal Evaluation, sponsored by Alberta Research Council and The Coal Association of Canada, Information Series 76, Nov. 1974
Report No.: ARC.76

0674 7 Report, Combustion, Gasification

In situ combustion of coal for energy
By Chaiken, R.F. Pittsburgh Mining and Safety Research Center, Pittsburgh, Pennsylvania
Office of Assistant Director - Mining, Bureau of Mines, United-States Department of the Interior, Nov. 1974
Report No.: NTIS.PB 241 892

0674 8 Book, Combustion

Development of coal fired fluidized bed boilers
Pope, Evans and Robbins, Inc., Alexandria, Virginia
United-States Department of the Interior, Washington, D.C., Oct. 1974
Report No.: NTIS.PB-236 544

0674 9 Article, Combustion

The reactivity of a porous brown coal char to oxygen between 630 and 1812 deg K
By Smith, I.W. / Tyler, R.J. CSIRO, Division of Mineral Chemistry, North-Ryde, Australia
Combust Sci Technol, Vol. 9, p. 87-94, 1974

0674 10 Article, Combustion

Burning the sub bituminous coals of Montana and Wyoming in large utility boilers
By Gray, R.J. / Moore, G.F. Babcock & Wilcox Company, Barberton, Ohio
ASME, Nov. 17/22, 1974, 12p., 1974
Report No.: ASME Paper No. 74-WA/FU-1

0675 0 Report, Combustion

Fluidized bed combustion of low grade fuels
By Szpindler, G.D. / Waters, P.L. / Young, C.C.
C.S.I.R.O. Division of Mineral Chemistry, 1975

0675 1 Report, Combustion

Fluidized bed combustion and coal fired packaged boilers
By Glenn, R.D. Combustion Processes, Inc., New-York, New-York
Second Annual Symposium on coal gasification, liquefaction and utilization, University of Pittsburgh, Aug. 1975

0675 2 Conference proceedings, Combustion, Gasification, Environment

New Techniques for the Utilization of indigenous Western fuels and waste products

Intercontinental Engineering Ltd., The Bayshore Inn, Vancouver, British-Columbia, Oct. 1975

0675 3 Conference proceedings, Combustion

State of the art of Fluidized combustion
By Locke, H.B.
Intercontinental Engineering Ltd., The Bayshore Inn, Vancouver, British-Columbia, Oct. 1975

0675 4 Conference proceedings, Combustion

Fluidized combustion for Western fuels
By Locke, H.B. / Orr, A.
Intercontinental Engineering Ltd., The Bayshore Inn, Vancouver, British-Columbia, Oct. 1975

0675 5 Book, Combustion

Advanced coal derived fuel combined cycle power plants
University of Kentucky, Lexington, Kentucky
Institute for Mining and Minerals Research, University of Kentucky, Lexington, Kentucky, Sept. 1976
Report No.: NTIS.PB-246 202

0675 6 Book, Combustion

Fluidized bed combustion process evaluation
By Kearns, D.L. / Archer, D.H. / Hamm, J.R. / Jansson, S.A. / Lancaster, B.W. / O'Neill, E.P. / Peterson, C.H. / Sun, C.C. / Sverdrup, E.F. / Vidt, E.J. / Yang, W.C. Westinghouse Research Laboratories, Pittsburgh, Pennsylvania
EPA, Office of Research and Development, Industrial Environmental Research Laboratory, Research Triangle Park, NC, Sept. 1975
Report No.: NTIS.PB-246 116

0675 7 Report, Combustion

The desulfurization of fossil fuels during combustion in fluidized beds of lime particles
By Moss, G. / Agius, P.J.
Proc. World Pet. Congr., Vol. 6, p. 87-96, 1975

0675 8 Article, Combustion

The effects of agglomerating characteristics of coals on combustion in pulverized fuel boilers
By Hensel, R.P. Coal Research Bureau, West-Virginia University, Morgantown, West-Virginia
Proceedings of the coal agglomeration and conversion symposium, Morgantown, West-Virginia, p. 223-234, May 1975

0675 9 Article, Combustion

Fluidized bed combustion of coarse agglomerating coals
By Molayem, B. / Ehrlich, S. Coal Research Bureau, West-Virginia University, Morgantown, West-Virginia
Proceedings of the coal agglomeration and conversion symposium, Morgantown, West-Virginia, p. 235-238, May 1975

0675 10 Patent, Combustion

Process for burning carbonaceous materials
By Reh, L. / Hirsch, A.M.
Assignees: Metallgesellschaft, May 1978, F27B15/00, Patent: Britain 1510946, Sept. 11975, Appl. 2539546, Sept. 1975
Report No.: P.1510946

0675 11 Book, Combustion

Annual report on the MHD high performance demonstration experiment, Nov. 1973 - April 1975
By Garrison, G.W. / Schmidt, H.J. / Welch, N.E. / Brogan, T.R. / Hill, J.A. / Marston, P.G. / Hay, R.D. / Langton, W.G.
Arnold Engineering Development Center, Arnold Air Force Station, Tennessee
United-States Department of Energy, Washington, D.C., July 1975
Report No.: NTIS.FE/1542-1

0675 12 Book, Combustion

Development and study of high temperature materials for various components of MHD installations
By Rekov, A.I. / Akopov, F.A. / Spiridonov, E.G. / Romanov, A.I. / Vysotskiy, D.A. Academy of Sciences, Moscow, USSR
United-States Energy Research and Development Administration, Washington, D.C., 1975
Report No.: NTIS.ERDA-tr-185

0675 13 Book, Combustion, Properties

Thermophysical and electrophysical properties of combustion products with seed
By Nedospasov, A.V. / Poberezhskiy, L.P. / Chernov, Y.G. / Gaponov, I.M. Academy of Sciences, Moscow, USSR
United-States Energy Research and Development Administration, Washington, D.C., 1975
Report No.: NTIS.ERDA-tr-183

0675 14 Book, Combustion

Open cycle coal fired MHD power generation. Final report, May 1971 - May 1975
By Massachusetts Institute of Technology, Cambridge, Massachusetts
United-States Energy Research and Development Administration, Washington, D.C., July 1975
Report No.: NTIS.FE-1209-1

0675 15 Book, Combustion, Environment

Multicell fluidized bed boiler design, construction and test program. Fluidized bed boiler cold modeling. Final report.
By Mesko, J.E. Pope, Evans and Robbins, Inc., New-York, New-York
United-States Energy Research and Development Administration, Washington, D.C., Sept. 1975
Report No.: NTIS.FE-1237-43

0675 16 Report, Combustion

Technological problems of burning low sulphur western coal
By Huff, L.L. / Haas, W.R. Illinois Institute of Technology, Chicago, Illinois
United-States Environmental Protection Agency, Chicago, Illinois, Dec. 1975
Report No.: NTIS.PB-252650

0675 17 Article, Combustion

Rapid devolatilization of pulverized coal
By Anthony, D.B. / Howard, J.B. / Hottel, H.C. / Meissner, H.P. Massachusetts Institute of Technology, Cambridge, Massachusetts
Fifteenth Symposium (Int) on Combustion, The Combustion Institute, Pittsburgh, Pennsylvania, p. 1303-1317, 1975

0676 0 Report, Combustion

Kinetics of Underground Combustion
By Buthod, A.P. / Thomas, G.W.
United-States Energy Research and Development Administration, Sept. 1976
Report No.: NTIS.BERC-0017-2

0676 1 Book, Combustion

A study of a model furnace burning methanol and a methanol/coal slurry
By Grosshandler, W.L.
Requirements for the degree of Doctor of Philosophy at the University of California, Berkeley, 269 pages., 1976
Report No.: UMI.77-15,704

0676 2 Report, Combustion

Prospects for the operation of diesel engines on coal or its derivatives
By Tipler, W.

I. Mech. E. Conf. Publ. Vol. CP1-1975, Iss. Power plants future fuels, 1976

0676 3 Book, Combustion

Pressurized fluidized bed combustion
National Research Development Corporation, London, United-Kingdom
United-States Energy Research and Development Administration, April 1976
Report No.: NTIS.FE-1511-23

0676 4 Report, Combustion

Coal combustion
By Teague, O.E. / Hechler, K.
Committee on Science and Technology, United-States House of Representatives, Ninety-Fourth Congress, Oct. 1976
Report No.: USGP.052-070-04092-1

0676 5 Book, Combustion

Development program for an ionizer precipitator fine particle dust collection system as applied to coal fired utility steam generators
By Schwab, J. / Goodson, D. / Cooper, J. / Ehlenberger, R. / Milovsoroff, P. Air Pollution Systems, Inc., Seattle, Washington
Electric Power Research Institute, Palo-Alto, California, Oct. 1976
Report No.: EPRI.FP-291

0676 6 Book, Combustion

Joint U.S. - U.S.S.R. Test of U.S. MHD electrode systems in U.S.S.R. U - O2 MHD facility (phase I). Final Report
By Hosler, W.R. Battelle Memorial Institute, Richland, Washington
Energy Research and Development Administration, Washington, D.C., 1976
Report No.: NTIS.ERDA 76/154

0676 7 Article, Combustion

Coal preheating. Research and development in the United Kingdom
By Graham, J.P.
Proceedings of the Ironmaking Conference, Vol. 35, p. 463-78, 1976

0676 8 Article, Combustion

The fluidized bed combustor modeling
By Tung, S.E. / Sarofim, A.F. / Glicksman, L.R. / Louis, J.F.
Energy Research and Development Administration, Washington, D.C., p. 4-55, Nov. 1976

0676 9 Patent, Combustion

Removing sulfur from coal
By Burk, E.H. / Yoo, J.S. / Karch, J.A.
Assignees: Atlantic Richfield Co., June 1978, C10L9/10, Patent: United-States, Dec. 1976, Appl. 749952, Dec. 1976
Report No.: P.4097244

0676 10 Book, Combustion, Gasification

Theoretical aspects of reverse combustion in the underground gasification of coal
By Kotowski, M.D. / Gunn, R.D. Laramie Energy Research Center, Laramie, Wyoming
United-States Energy Research & Development Administration, March 1976
Report No.: NTIS.LERC/RI-76/4

0676 11 Patent, Combustion

Treatment of solid fuels
By Cole, E.L.
Assignees: Texaco Inc., May 1978, C10L9/10, Patent: United-States, 4089656, Aug. 1976, Appl. 716499, Aug. 1976
Report No.: P.4089656

0676 12 Patent, Combustion

Removing sulfur emissions from a fluidized bed combustion process
By Vogel, G.J. / Jonke, A.A. / Snyder, R.B.
Assignees: United-States Department of Energy, May 1978, B01J8/00, Patent: United-States 4091076, May 1976, Appl. 684419, May 1976
Report No.: P.4091076

0676 13 Book, Combustion

Development program for MHD direct coal fired power generation test facility, Annual Technical Progress Report, Jan. - Dec. 1975
By Dicks, J.B. / Tempelmeyer, K.E. / Wu, Y.C. / Crawford, L.W. / Muehlhauser, J.W. / Martin, J.F. / Heimlich, I.R. / Beaton, M.S. University of Tennessee Space Institute, Tullahoma, Tennessee
Energy Research and Development Administration, Washington, D.C., Jan. 1976
Report No.: NTIS.FE-1760-14

0676 14 Book, Combustion

Coal feeder development program, Annual Report 1976
Lockheed Missiles and Space Company, Inc., Lockheed Palo-Alto Research Laboratory, Sunnyvale, California
Energy Research and Development Administration, Washington, D.C., June 1976
Report No.: NTIS.FE-1792-16

0676 15(*) Conference proceedings, Combustion

Proceedings of the 15th symposium engineering aspects of magnetohydrodynamics
By Yeh, H.C. University of Pennsylvania, Philadelphia, Pennsylvania
Proceedings of the 15th Symposium, Engineering Aspects of MHD, Philadelphia, Pennsylvania, May 1976

0676 16(*) Conference proceedings, Combustion, Environment

Effects of trace contaminants from coal combustion. Proceedings of a workshop August 2 - 6, 1976, Knoxville, Tennessee
By Van-Hook, R.I. / Shults, W.D.
Energy Research and Development Administration, Washington, D.C., Aug. 1976
Report No.: NTIS.ERDA 77-64

0676 17 Book, Combustion

A development program on pressurized fluidized bed combustion. Annual report July 1975 - June 1976
By Vogel, G.J. / Johnson, I. / Cunningham, P.T. / Hubble, B.R. / Lee, S.H. / Lenc, J.F. Argonne National Laboratory, Argonne, Illinois
Energy Research and Development Administration, Washington, D.C., July 1976
Report No.: NTIS.ANL/ES-CEN-1016

0676 18 Book, Combustion

MHD combustor design study. Final report
Rockwell International, Canoga-Park, California
United-States Energy Research and Development Administration, Washington, D.C., May 1976
Report No.: NTIS.TID-27144

0676 19 Book, Combustion

Report on the air preheater system for the MHD component development integration facility, Butte, Montana. FluiDyne report 1079
FluiDyne Engineering Corporation, Minneapolis, Minnesota
United-States Energy Research and Development Administration, Washington, D.C., July 1976
Report No.: NTIS.TID-27153

0676 20 Book, Combustion

CDIF combustor instrumented test section. Final report
By Luce, R.G. / Wilkinson, W.H. / Bojarski, A.A. / Robinson, R.E. / Grinberg, I.M. Battelle Columbus Laboratories, Columbus, Ohio
United-States Energy Research and Development Administration, Washington, D.C., Sept. 1976
Report No.: NTIS.TID-27147

0676 21 Book, Combustion

CDIF combustor design. Final report
By Stickler, D.B. / Barnes, R.T. Avco Everett Research Laboratory, Inc., Everett, Massachusetts
United-States Energy Research and Development Administration, Washington, D.C., June 1976
Report No.: NTIS.TID-27143

0676 22 Book, Combustion

CDIF instrumented test section. Final report
Avco Everett Research Laboratory, Inc., Everett, Massachusetts
United-States Energy Research and Development Administration, Washington, D.C., Aug. 1976
Report No.: NTIS.TID-27146

0676 23 Book, Combustion, Properties

Errors of measurement of plasma temperature in MHD generator channels
By Novosadov, V.B. Academy of Sciences, Moscow, USSR
United-States Energy Research and Development Administration, Washington, D.C., Sept. 1976
Report No.: NTIS.ERDA-tr-184

0676 24 Book, Combustion

TRW 25 MWT staged MHD coal combustor conceptual design study
TRW Defense and Space Systems Group, Redondo-Beach, California
United-States Energy Research and Development Administration, Washington, D.C., June 1976
Report No.: NTIS.TID-27145

0676 25 Book, Combustion

Energy conversion from coal utilizing CPU 400 Technology
By Phillips, K.E. Combustion Power Company, Inc., Menlo-Park, California
United-States Energy Research and Development Administration, Washington, D.C., Nov. 1976
Report No.: NTIS.FE-1536-22

0676 26 Conference proceedings, Combustion

Energy from fossil fuels and geothermal energy. Volume 2: Progress in energy and combustion science
By Chigier, N.A.
Pergamon Press, Great-Britain, 1976

0676 27 Conference proceedings, Combustion

Fluidized bed combustion of coal for power generation
By Anson, D. Marchwood Engineering Laboratories, Marchwood, Southampton, Hampshire, United-Kingdom

Prog. Energy Combust. Sci., Vol. 2, p. 61-82, 1976

0676 28 Conference proceedings, Combustion

Fossil Energy Research and Development in ERDA
By White, P.C. United-States Energy Research and Development Administration, Washington, District-of-Columbia
Prog. Energy Combust. Sci., Vol. 2, p. 115-128, 1976

0676 29 Book, Combustion

Experimental studies of the MHD generator of the U 25 facility with the ID channel

United-States Energy Research and Development Administration, Washington, D.C., 1976
Report No.: NTIS.ERDA-tr-182

0676 30 Book, Combustion

Operational status and current trends in gas turbines for utility applications in Europe
By Harmon, R.A. United-States Energy Research and Development Administration, Washington, District-of-Columbia
United-States Department of Energy, Washington, D.C., Aug. 1976
Report No.: NTIS.FE/WAPO/0016-1

0676 31(*) Conference proceedings, Combustion

Fluidization technology, volume 1
By Keairns, D.L. Engineering Foundation, New York, New York
Proceedings of the International Fluidization Conference, Pacific-Grove, California, Vol. 1, 1976, 466 p., 1976

0676 32(*) Conference proceedings, Combustion

Fluidization technology, volume 2
By Keairns, D.L. Engineering Foundation, New York, New York
Proceedings of the International Fluidization Conference, Pacific Grove, California, Vol. 2, 1976, 607 p., 1976

0676 33 Report, Combustion

Liquid metal MHD coupled to coal fired fluidized bed combustors
By Brunsvold, A.R. / Pierson, E.S. United-States Energy Research and Development Administration, Washington, District-of-Columbia
15th symposium of Engineering Aspects of MHD, 8 p., May 1976
Report No.: NTIS.CONF-760556-1

0676 34 Report, Combustion

Electric utility coal consumption and generation trends, 1976 1985
ICF, Inc., Washington, District-of-Columbia
Federal Energy Administration, Washington, D.C., 42p., Nov. 1976
Report No.: NTIS.PB-262-483

0676 35 Book, Combustion

Conceptual commercial design and commercial feasibility evaluation for clean boiler fuel facility. Final report (Vol. 1 3)
Dravo Corporation, Pittsburgh, Pennsylvania
United-States Energy Research and Development Administration, 467 p., Feb. 1976
Report No.: FE-1772-13(Vol. 1, Vol. 2, Vol. 3)

0676 36 Book, Combustion

CDIF instrumented test section - final report
By Betnke, G. / Burton, T. / DeDominicis, D. / Sterk, A. General Electric Company, Philadelphia, Pennsylvania
United-States Energy Research and Development Administration, 200p., Aug. 1976
Report No.: TID-27148

0676 37 Book, Combustion

Conceptual design of a CDIF instrumented test section - final report
MEPPSCO, Inc., Boston, Massachusetts
United-States Energy Research and Development Administration, 200p., Oct. 1976
Report No.: TID-21749

0676 38 Book, Combustion

CDIF MHD generator system conceptual design - final report. Section 1, Analysis
By Burton, T. / Coppa, A. / DeDominicis, D. / Dellinger, T.C. / Marston, C. / Rogers, D.E. / Noone, M. General Electric Company, Philadelphia, Pennsylvania
United-States Energy Research and Development Administration, 200p., Dec. 1976
Report No.: TID-27150

0676 39 Report, Combustion

CREK - A computer program for calculation of combustion reaction equilibrium and kinetics in laminar or turbulent flow
By Pratt, D.T. / Wormeck, J.J. Washington State University, Pullman, Washington
Washington State University, 130p., March 1976
Report No.: WSU-ME-TEL-76-1

0676 40 Report, Combustion, Environment

A review of trace element studies related to coal combustion in the four corners area of New Mexico

By Wangen, L.E. / Wienke, C.L. Los-Alamos Scientific Laboratory, University of California, Los-Alamos, New-Mexico
Los-Alamos Scientific Laboratory, 53p., June 1976
Report No.: LA-6401-MS

0676 41 Article, Combustion, Environment

Solvent refining for clean coal combustion
By Wolk, R. / Stewart, N. / Alpert, S.B. Electric Power Research Institute, Palo-Alto, California
EPRI Journal, May, 1976, p. 12-16, 1976

0677 0 Book, Combustion

Coal Conversion
By Hoffman, E.J.
The Energon Company, Laramie, Wyoming, 1977

0677 1 Article, Combustion

Synthetic Sulfur Dioxide Sorbents for Fluidized Bed Coal Combustors
By Snyder, R.B. / Wilson, W.R. / Johnson, I. / Jonke, A.A.
J. Air Pollution Control Assoc. Vol. 27, No. 10, Oct. 1977, p. 975-981, 1977

0677 2 Article, Combustion

The Assessment and Maintenance of Electrostatic Precipitators for Pulverised Coal Boilers
By Lowe, H.J. / Ross, F.F.
Combustion Vol. 49, No. 4, Oct. 1977, p. 26-31, 1977

0677 3 Article, Combustion, Environment

Scrubbers win the Energy - Sulphur dioxide controversy
By Earl, C.B.
Coal Min Process, Vol. 14, No. 10, Oct. 1977, p. 64-65, Oct. 1977

0677 4 Book, Combustion

Characterization of Ash from Coal Fired Power Plants
By Ray, S.S. / Parker, F.G. Tennessee Valley Authority, Chattanooga, Tennessee
Industrial Environmental Research Lab, Research Triangle Park, North-Carolina, Jan. 1977
Report No.: NTIS.PB-265 374

0677 5 Article, Combustion

A description of the direct coal fired MHD facility at the University of Tennessee Space Institute
By Dicks, J.B. / Tempelmeyer, K.E. / Markant, H.P. / Wu, Y.C. University of Tennessee Space Institute, Tullahoma, Tennessee
Proc. - Intersoc. Energy Convers. Eng. Conf. Vol. 12, Vol. 2, p. 995-1003, 1977

0677 6 Article, Combustion

MHD: Tomorrow's coal technology
By Melcher, J.
Min. Eng (New York) Vol. 29, No. 12, Dec. 1977, p. 34-37, Dec. 1977

0677 7 Patent, Combustion

Process for the combined production of synthesis gas and calcined coal
By Lambert, H.R.
Assignees: Marathon Oil Co., Patent: Britain, 1 483 890, Aug. 1977, Appl. 5804/77, Aug. 1977
Report No.: P.1483890

0677 8 Article, Combustion

Fluidized Bed Coal Combustion with lime additives. The phenomenon of peaking of sulfur retention at a certain temperature.
By Yang, R.T. / Krishna, C.R. / Steinberg, M.
Ind. Eng. Chem. Fundam. Vol. 16, No. 4, Nov. 1977, p. 465-467, Nov. 1977

0677 9 Article, Combustion, Environment

Texasgulf keeps West clean while burning Wyoming coal
By Schwieger, B.
Power, Vol. 121, No. 11, Nov. 1977, p. 43-53, Nov. 1977

0677 10 Book, Combustion

Fluidized bed combustion of coal and waste materials
By Yaverbaum, L.
Noyes Data Corporation, Pollution Technology Review No. 35, Energy Technology Review No. 15, 1977

0677 11 Article, Combustion

Mathematical modelling of coal combustion in fluidized beds with sulfur emission control by limestone or dolomite.
By Chen, T.P. / Saxena, S.C.
Fuel, Vol. 56, No. 4, Oct. 1977, p. 401-413, Oct. 1977

0677 12 Article, Combustion

Review fuel properties that affect furnace performance

Power, Vol. 121, Iss. 12, p. 42-3, 1977

0677 13 Article, Combustion

Fluidized bed combustion of coal: Status and prospects
By Gordon, J.S. MITRE Corporation, Westgate Research Park, McLean, Virginia
Proceedings of the American Power Conference, Volume 39, p. 441-447, 1977

0677 14 Article, Combustion

Composition and Variation of pulverized fuel ash obtained from the combustion of sub bituminous coal, New Zealand.
By Bibby, D.M.
Fuel, Vol. 56, No. 4, Oct. 1977, p. 427-431, Oct. 1977

0677 15 Article, Combustion, Environment

Fossil Fuel Burning: Its effects on the biosphere and biogeochemical cycles: group report
By Lerman, A. / Bernhard, M. / Bolin, B. / Delwiche, C.C. / Ehhalt, D.H. / Gessel, S.P. / Kester, D.R. / Krumbein, W.E. / Likens, G.E. / Mackenzie, F.T. / Reiners, W.A. / Stumm, W. / Woodwell, G.M. / Zinke, P.J.
Dahlem Konferenzen, Berlin, Deu, 1977, p. 275-289, Dec. 1975

0677 16 Article, Combustion

Fluidized bed combustion for steam raising and power generation
By Finlayson, P.C. / Ballantyne, J.
Energy Digest, Vol. 6, No. 4, Oct. 1977, p. 11-12, Oct. 1977

0677 17 Article, Combustion, Properties

Single particle analysis of the ash from the Dickerson coal fired power plant
By Small, J.A. / Zoller, W.H.
NBS Spec. Publ. (United-States), Nov. 1977, Vol. 464, p. 651-8, Nov. 1977
Report No.: NBS.464

0677 18 Report, Combustion

A study of coal firing in the grate kiln system
By Faulkner, B.P. / Losin, E.T. / Cnare, R.F.
Presented at the 50th Annual Meeting, Minnesota Section, AIME, Duluth, Minnesota, Jan. 1977

0677 19 Article, Combustion

Coal firing in the Grate kiln system
By Chare, R.F.
Min. Congr. J., Vol. 63, No. 9, Sept. 1977, p. 79-82, Sept. 1977

0677 20 Report, Combustion, Beneficiation

Clean coal combustion through coal washing and blending
By Stewart, O.W. / Shou, J.K.
Univ. Ky. Inst. Min. Miner. Res. Rep. Immr., No. 29-PD18-77, May 1977, 18 pages, May 1977
Report No.: UOK.29-PD18-77

0677 21 Japanese Article, Combustion

Characteristics of fluidized bed coal combustors
By Horio, M.
J. Fuel Soc. Jpn., Vol. 56, No. 607, Nov. 1977, p. 871-877, Nov. 1977

0677 22 Japanese Article, Combustion

Experimental investigation of NOx formation in the fluidized bed coal combustion
By Toba, Y. / Ogisu, Y.
J. Fuel Soc. Jpn., Vol. 56, No. 604, Aug. 1977, p. 657-665, Aug. 1977

0677 23 Book, Combustion

Combustion of coal oil slurry in a 100 HP Firetube Boiler
By Demeter, J.J. / McCann, C.R. / Bellas, G.T. / Ekmann, J.M. / Bienstock, D. Pittsburgh Energy Research Center, Pittsburgh, Pennsylvania
United-States Energy Research and Development Administration, May 1977
Report No.: NTIS.PERC/RI-77/8

0677 24 Book, Combustion

Fluidized bed combustion: Industrial application demonstration projects, special technical report on Battelle's multi solids fluidized bed combustion process
By Vaughan, D.A. / Trayser, D.A. / Liu, K.T. / Weller, A.E. / Nack, H. Battelle Columbus Laboratories, Columbus, Ohio
United-States Energy Research and Development Administration, Feb. 1977
Report No.: NTIS.FE-2472-8

0677 25 Article, Combustion, Properties

On line particulate analysis for advanced combustion systems
By Van-Valkenburg, E.S. Leeds & Northrup Company, North-Wales, Pennsylvania

United-States Department of Energy, Washington, D.C., July 1977
Report No.: NTIS.ANL-78-7

0677 26 German Article, Combustion

Experience gained in the use of low calorific value raw lignite for power generation in the GDR
By Bude, F. / Schindler, K. / Weidlich, H.G.
Energietechnik, Vol. 27, No. 7, July 1977, p. 262-269, July 1977

0677 27 Article, Combustion

The stage combustion coal fired glass furnace
By Vander-Molen, R.H. / Uhrmann, C.J.
Glass Ind., Jan. 1977, Vol. 58, Iss. 1, p. 14-16, 21-4, Jan. 1977

0677 28 Report, Combustion

Laboratory studies on spontaneous heating of coal
By Kim, A.G.
United-States Department of the Interior, Bureau of Mines, Information Circular 8756, 1977
Report No.: BOM.IC 8756

0677 29 Report, Combustion

Centrifugal Fluidization: A Review
By Levy, E.K. / Chen, J.C.
Presented at the International Powder and Bulk Solids Handling & Processing Conference/Exhibition, Rosemont, Illinois, May 1977
Report No.: NTIS.CONF-770520-1

0677 30 Article, Combustion

Combustion of coal in fluidized beds
By Wright, S.J.
Phys. Technol., Vol. 8, No. 6, Nov. 1977, p. 244-248, Nov. 1977

0677 31 Article, Combustion

Fluidized bed combustion technology - A review
By Rao, C.S.R.
Combust. Sci. Technol., Vol. 16, No. 3-6, p. 215-227, 1977

0677 32 Book, Combustion

An investigation of hot corrosion and erosion occurring in a fluid bed combustor gas turbine cycle using coal as fuel

United-States Energy Research and Development Administration, May 1977
Report No.: NTIS.FE/1536-2

0677 33 Article, Combustion

High temperature coal and slurry combustor according to a one dimensional flow model
By Chung, P.M. / Smith, R.S. Argonne National Laboratory, Argonne, Illinois
Eng. Aspects Magnetohydrodyn., Vol. 16, p. IX.1.1-IX.1.7, 1977

0677 34 Article, Combustion

Fluidized combustion of beds of large, dense particle in reprocessing HTGR fuel
By Young, D.T. General Atomic Company, San-Diego, California
Proc. Intersoc. Energy Convers. Eng. Conf. 12th, Washington, D.C., Publ. by ANS, p. 788-795, Sept. 1977

0677 35 Article, Combustion

Low temperature combustion of solid fuels in a fluid bed containing a heat sink
By Bryers, R.W. Foster Wheeler Energy Corporation, Livingston, New-Jersey
Proc. Intersoc. Energy Convers. Eng. Conf. 12th, Washington, D.C., Publ. by ANS, p. 779-787, Sept. 1977

0677 36 Article, Combustion

Fluidized bed combustion of anthracite refuse
By Mei, J.S. / Gall, R.L. / Wilson, J.S. Morgantown Energy Research Center, Morgantown, West-Virginia
Proc. Intersoc. Energy Convers. Eng. Conf. 12th, Washington, D.C., Publ. by ANS, p. 772-778, Sept. 1977

0677 37 Article, Combustion

Dynamic modeling of fluidized bed boilers for control system design
By Berkowitz, D.A. / Ray, A. / Sumaria, V.H. MITRE Corporation, Bedford, Maine
Proc. Intersoc. Energy Convers. Eng. Conf. 12th, Washington, D.C., Publ. by ANS, p. 765-771, Sept. 1977

0677 38 Article, Combustion

Sorbent regeneration in fluidized bed combustion
By Ruth, L.A. Exxon Research and Engineering Company, Linden, New-Jersey
Proc. Intersoc. Energy Convers. Eng. Conf. 12th, Washington, D.C., Publ. by ANS, p. 758-764, Sept. 1977

0677 39 Article, Combustion, Environment

Reducing the environmental impact of solid wastes from a fluidized bed combustor
By Johnson, I. / Vogel, G.J. / Montagna, J.C. / Shearer, J. / Snyder, R.B. / Swift, W.M. / Jonke, A.A. Argonne National Laboratory, Argonne, Illinois
Proc. Intersoc. Energy Convers. Eng. Conf. 12th, Washington, D.C., Publ. by ANS, p. 751-757, Sept. 1977

0677 40 Article, Combustion

Development of the fluidized bed carbon burnup cell
By Reed, R.R. Pope, Evans and Robbins, Inc., Alexandria, Virginia
Proc. Intersoc. Energy Convers. Eng. Conf. 12th, Washington, D.C., Publ. by ANS, p. 743-750, Sept. 1977

0677 41 Article, Combustion

Pressurized fluidized bed coal combustion
By Hoke, R.C. Exxon Research and Engineering Company, Linden, New-Jersey
Proc. Intersoc. Energy Convers. Eng. Conf. 12th, Washington, D.C., Publ. by ANS, p. 737-742, Sept. 1977

0677 42 Article, Combustion

Analysis of power cycles with centrifugal fluidized bed coal combustion
By Shakespeare, W.J. / Levy, E.K. / Chen, J.C. / Kadambi, V. Lehigh University, Bethlehem, Pennsylvania
Proc. Intersoc. Energy Convers. Eng. Conf. 12th, Washington, D.C., Publ. by ANS, p. 731-736, Sept. 1977

0677 43 Article, Combustion

A unitized 500 megawatt fluidized bed boiler design
By Darling, S.L. / Tourin, R.H. Combustion Engineering, Inc., Windsor, Connecticut
Proc. Intersoc. Energy Convers. Eng. Conf. 12th, Washington, D.C., Publ. by ANS, p. 725-730, Sept. 1977

0677 44 Article, Combustion

The solid fuel gas turbine for industrial energy production
By Wocasek, F.R. / Moody, D.R. Combustion Power Company, Inc., Menlo-Park, California
Proc. Intersoc. Energy Convers. Eng. Conf. 12th, Washington, D.C., Publ. by ANS, p. 718-724, Sept. 1977

0677 45 Article, Combustion

Fluidized bed adiabatic combustor power plants: Concepts and comparisons
By Hamm, J.R. / Keairns, D.L. / Archer, D.H. Westinghouse Research and Development Center, Pittsburgh, Pennsylvania
Proc. Intersoc. Energy Convers. Eng. Conf. 12th, Washington, D.C., Publ. by ANS, p. 712-717, Sept. 1977

0677 46 Article, Combustion

Coal fired combined cycle for electric power generation
By Brooks, R.D. / Peterson, J.R. / Weth, G. General Electric Company, Schenectady, New-York
Proc. Intersoc. Energy Convers. Eng. Conf. 12th, Washington, D.C., Publ. by ANS, p. 704-711, Sept. 1977

0677 47 Article, Combustion

Pressurized fluidized bed pilot plant for production of electric power using high sulfur coal
By Moskowitz, S. / Weth, G. Curtiss-Wright Corporation, Wood-Ridge, New-Jersey
Proc. Intersoc. Energy Convers. Eng. Conf. 12th, Washington, D.C., Publ. by ANS, p. 696-703, Sept. 1977

0677 48 Article, Combustion

High efficiency energy conversion cycles utilizing fluidized bed combustion technology
By Mesko, J.E. Pope, Evans and Robbins, Inc., New-York, New-York
Proc. Intersoc. Energy Convers. Eng. Conf. 12th, Washington, D.C., Publ. by ANS, p. 691-695, Sept. 1977

0677 49 Article, Combustion

Fluidized bed combustion - An overview
By Hanway, J.E. / Carls, E.L. / Coates, N.H.
Proc. Intersoc. Energy Convers. Eng. Conf. 12th, Washington, D.C., Publ. by ANS, p. 690, Sept. 1977

0677 50 Article, Combustion, Properties

On line monitoring of particulates
By Trolinger, J.D. / Busch, C.W. Spectron Development Laboratories, Inc., Costa-Mesa, California
United-States Department of Energy, Washington, D.C., July 1977
Report No.: NTIS.ANL-78-7

0677 51 Book, Combustion

Factors influencing formation of alkali sulfates in fossil fuel combustion
By Wilson, J.S. / Gillmore, D.W. Morgantown Energy Research Center, Morgantown, West-Virginia
United-States Department of Energy, Dec. 1977
Report No.: NTIS.MERC/RI-77/5

0677 52 Article, Combustion

Some new information on the problem of the spontaneous combustion of coals in the earth's crust
By Kizil'shtein, L.Y. / Kosinskii, V.A. / Shelepin, O.E.
Solid Fuel Chem., Vol. 11, No. 5, p. 90-94, 1977

0677 53 Report, Combustion

Silica vaporization and condensation: A potential source of fouling in coal combustion
By Taylor, R.W. Lawrence Livermore Laboratory, University of California, Livermore, California
Presented at the Conference on High Temperature Sciences related to Open-circle, Coal-fired MHD Systems, Argonne National Laboratory, Argonne, Illinois, March 1977
Report No.: NTIS.CONF-770411-2

0677 54 Article, Combustion

Propagation of laminar pulverized coal air flames
By Smoot, L.D. / Horton, M.D.
Prog. Energy Combust. Sci., Vol. 3, Iss. 4, p. 235-58, 1977

0677 55 Article, Combustion

Nitrogen oxides produced in fluidized bed combustion of carbonaceous materials
By Furusawa, T. / Tetsuzo, H. / Daizo, K.
Pac. Chem. Eng. Congr., (Proc.), Vol. 2, Iss. 2, p. 1236-1243, 1977

0677 56(*) Book, Combustion, Gasification, Liquefaction

Technology and use of lignite
By Kube, W.R.
Grand-Forks Energy Research Center, Grand-Forks, North-Dakota, May 1977
Report No.: GFRC.IC-77/1

0677 57 Patent, Combustion

Decomposition of calcium sulfate in a fluidized bed with in situ combustion of coal
By Wheelock, T.D.
Assignees: Iowa State University Research Foundation, Inc., Nov. 1977, p. 36, C10B, Patent: S. African, 77 00620, Feb. 1977, Appl. 77/620, Feb. 1977
Report No.: P.7700620

0677 58 Article, Combustion

The petrocarb pneumatic feeding - A proved method for feeding particulate solids at controlled rates
By Reintjes, H. Petrocarb, Inc., New-York, New-York
United-States Energy Research and Development Administration, Proceedings: Conference on Coal Feeding Systems, Pasadena, California, p. 55-63, June 1977
Report No.: NTIS.N78-13243

0677 59 Article, Combustion

Continuous high pressure lump coal feeder design study
By Fields, S.F. GARD, Inc., Niles, Illinois
United-States Energy Research and Development Administration, Proceedings: Conference on Coal Feeding Systems, Pasadena, California, p. 359-387, June 1977
Report No.: NTIS.N78-13253

0677 60 Article, Combustion

Coal feed component testing for CDIF
By Pearson, C.V. / Snyder, B.K. / Fornek, T.E. Argonne National Laboratory, Argonne, Illinois
United-States Energy Research and Development Administration, Proceedings: Conference on Coal Feeding Systems, Pasadena, California, p. 550-570, June 1977
Report No.: NTIS.N78-13262

0677 61 Article, Combustion

Material handling systems for the fluidized bed combustion boiler at Rivesville, West Virginia
By Branam, J.G. / Rosborough, W.W. MITRE Corporation, Westgate Research Park, McLean, Virginia
United-States Energy Research and Development Administration, Proceedings: Conference on Coal Feeding Systems, Pasadena, California, p. 604-623, June 1977
Report No.: NTIS.N78-13265

0677 62 Article, Combustion

Action mass flow system applied to PFBC feed
By Homburg, E. Acton Corporation, Cleveland, Ohio
United-States Energy Research and Development Administration, Proceedings: Conference on Coal Feeding Systems, Pasadena, California, p. 636-652, June 1977
Report No.: NTIS.N78-13267

0677 63 Article, Combustion

Some developments in the feeding of coal to fluidized bed combustors
By Caldwell, L.G. Ducon Fluid Transport Division, United-States Filter Corporation, King-of-Prussia, Pennsylvania
United-States Energy Research and Development Administration, Proceedings: Conference on Coal Feeding Systems, Pasadena, California, p. 653-676, June 1977
Report No.: NTIS.N78-13268

0677 64 Book, Combustion

Evaluation of sulfate bearing waste material from fluidized bed combustion of coals for soil stabilization
By Nebgen, J.W. / Edwards, J.G. / Conway, D. Midwest Research Institute, Kansas-City, Missouri
United-States Department of Transportation, Office of Research and Development, Washington, D.C., Sept. 1977
Report No.: NTIS.PB-278 031

0677 65 Article, Combustion

Approach to the prediction of maximum spacing of coal feed points in a fluidized bed boiler
By Basu, P.
Mech. Eng. Bull., Vol. 8, No. 1-2, June 1977, p. 3-8, June 1977

0677 66 Book, Combustion

Fluidized bed regeneration of sulfated dolomite from a coal fired FBC process by reductive decomposition
By Montagna, J.C. / Vogel, G.J. / Smith, G.W. / Jonke, A.A.
United-States Energy Research and Development Administration, April 1977
Report No.: NTIS.ANL-77-16

0677 67 Book, Combustion

Estimated prices for thermal generating stations
By Stremlaw, A.J. / Graham, R.W.
Electrical Engineering Branch, National Energy Board, Ottawa, Ontario, Feb. 1977

0677 68 Article, Combustion, Properties

Investigation of the efficacy of antipyrogens
By Polyanskaya, L.A.
Solid Fuel Chem., Vol. 11, No. 6, p. 69-71, 1977

0677 69 Article, Combustion

Slug flow model for coal combustion with sulfur emission control by limestone or dolomite
By Sazena, S.C. / Chen, T.P. / Jonke, A.A. Argonne National Laboratory, Argonne, Illinois
AIChE Annual Meeting, New-York, New-York, Nov. 1977
Report No.: NTIS.CONF-771102-22

0677 70 Book, Combustion

Overfire air technology for tangentially fired utility boilers burning western United States coal
By Burrington, R.L. / Cavers, J.D. / Selker, A.P. Combustion Engineering, Inc., Windsor, Connecticut
EPA, Office of Research and Development, Research-Triangle-Park, North-Carolina, Oct. 1977
Report No.: NTIS.PB-277 012

0677 71 Patent, Combustion

Stabilized suspension of carbon in hydrocarbon fuel
By Keller, L.J.
Assignees: Keller Corporation, May 1978, C10L1/32, Patent: United-States 4089657, May 1977, Appl. 797414, May 1977
Report No.: P.4089657

0677 72 Article, Combustion

Numerical analysis of coal dust air mixture combustion
By Wolanski, P.
Arch. Termodyn. Spalania, Vol. 8, Iss, 3, p. 451-8, 1977

0677 73 Article, Combustion

Some properties of coal slags of importance to MHD
By Capps, W. National Bureau of Standards, Washington, District-of-Columbia
Eng. Aspects Magnetohydrodyn., Vol. 16, p. VIII.3.21.-VIII.3.25, 1977

0677 74 Article, Combustion

Neutron induced gamma spectrometry for on line compositional analysis in coal conversion and fluidized bed combustion plants
By Herzenberg, C.L. / O'Fallon, N.M. / Yarlagadda, B.S. Argonne National Laboratory, Argonne, Illinois
Third International Conference on Nuclear Methods in Environmental and Energy Research, University of Missouri, Columbia, Missouri, Oct. 1977
Report No.: NTIS.CONF-771072-3

0677 75 Article, Combustion

A trial on 100% coal firing
By Hanks, G.F.
Glass Ind., April 1977, Vol. 58, Iss. 4, p. 10-16, April 1977

0677 76 Article, Combustion

Sulfur in coal and its transformation during pyrolysis
By Tiwari, D.N. / Mitra, P.K. / Raja, K.
FRI News, Vol. 27, No. 1, p. 19-22, 1977

0677 77 Article, Combustion

Development of fluidized combustion for Indian coal
By Abbi, Y.P. / Banerji, M. / Ghosh, M.K. / Malliah, K.T. Bharat Heavy Electric Ltd., New-Delhi, India
URJA, March 1977, Vol. 1, Iss. 3, p. 20-25, March 1977

0677 78 Article, Combustion

Question of initiation in the oxidation of brown coal by oxygen
By Sukhov, V.A. / Zamyslov, V.B. / Davydova, Z.A.

Solid Fuel Chem., Vol. 11, No. 4, p. 98-99, 1977

0677 79(*) Conference proceedings, Combustion

Conference on high temperature sciences related to open cycle, coal fired MHD systems
By Raring, L.M. Argonne National Laboratory, Argonne, Illinois
Conference on high temperature sciences related to open cycle, coal-fired MHD systems, Argonne, Illinois, April 1977
Report No.: NTIS.ANL-77-21

0677 80 Conference proceedings, Combustion

Ash deposits and corrosion due to impurities in combustion gases
By Bryers, R.W. Electric Power Research Institute, Palo-Alto, California
Proceedings of the International Conference on Ash Deposits and Corrosion from Impurities in Combustion Gases, Henniker, New-Hampshire, July 1977

0677 81 Conference proceedings, Combustion

An introduction to the occurrence of mineral matter in coal
By Gluskoter, H.J. Illinois State Geological Survey, Urbana, Illinois
Proceedings of the International Conference on Ash Deposits and Corrosion from Impurities in Combustion Gases, Henniker, New-Hampshire, p. 3-20, July 1977

0677 82 Conference proceedings, Combustion

Analysis of mineral matter in coals of the Ruhr under gasification conditions
By Plogmann, H. / MacKowsky, M.T. Bergbau-Forschung GMBH, Essen, Germany
Proceedings of the International Conference on Ash Deposits and Corrosion from Impurities in Combustion Gases, Henniker, New-Hampshire, p. 21-38, July 1977

0677 83 Conference proceedings, Combustion

Variations in organic constituents of some low rank coals
By Miller, R.N. / Given, P.H. Pennsylvania State University, University-Park, Pennsylvania
Proceedings of the International Conference on Ash Deposits and Corrosion from Impurities in Combustion Gases, Henniker, New-Hampshire, p. 39-50, July 1977

0677 84 Conference proceedings, Combustion

The nature of metals in petroleum fuels and coal derived synfuels
By Filby, R.H. / Shah, K.R. / Yaghmaie, F. Washington State University, Pullman, Washington
Proceedings of the International Conference on Ash Deposits and Corrosion from Impurities in Combustion Gases, Henniker, New-Hampshire, p. 51-64, July 1977

0677 85 Conference proceedings, Combustion

Microscopic investigation of the behaviour of inorganic material in coal during combustion
By Shibaoka, M. / Ramsden, A.R. CSIRO, Minerals Research Laboratories, North-Ryde, Australia
Proceedings of the International Conference on Ash Deposits and Corrosion from Impurities in Combustion Gases, Henniker, New-Hampshire, p. 67-76, July 1977

0677 86 Conference proceedings, Combustion

Ash fouling studies of low rank western United States coals
By Sondreal, E.A. / Gronhovd, G.H. / Tufte, P.H. / Beckering, W. Grand-Forks Energy Technology Center, Grand-Forks, North-Dakota
Proceedings of the International Conference on Ash Deposits and Corrosion from Impurities in Combustion Gases, Henniker, New-Hampshire, p. 85-112, July 1977

0677 87 Conference proceedings, Combustion

An investigation of acid smut formation in an industrial boiler plant
By Hedley, A.B. / Papavergos, P. University of Sheffield, Sheffield, United-Kingdom
Proceedings of the International Conference on Ash Deposits and Corrosion from Impurities in Combustion Gases, Henniker, New-Hampshire, p. 113-128, July 1977

0677 88 Conference proceedings, Combustion

The fate of fuel nitrogen - implications for combustor design and operation
By Heap, M.P. / Corley, T.L. / Kau, C.J. / Tyson, T.J. Energy and Environmental Research Corporation, Santa-Ana, California
Proceedings of the International Conference on Ash Deposits and Corrosion from Impurities in Combustion Gases, Henniker, New-Hampshire, p. 129-144, July 1977

0677 89 Conference proceedings, Combustion

Deposition of inorganic material in oil fired boilers
By Jackson, P.J. Marchwood Engineering Laboratories, Marchwood, Southampton, Hampshire, United-Kingdom
Proceedings of the International Conference on Ash Deposits and Corrosion from Impurities in Combustion Gases, Henniker, New-Hampshire, p. 147-162, July 1977

0677 90 Conference proceedings, Combustion

Improved thermal efficiency by control of factors affecting metal wastage in pulverized coal fired steam generators
By Borio, R.W. / Plumley, A.L. / Sylvester, W.R. Combustion Engineering, Inc., Windsor, Connecticut
Proceedings of the International Conference on Ash Deposits and Corrosion from Impurities in Combustion Gases, Henniker, New-Hampshire, p. 163-184, July 1977

0677 91 Conference proceedings, Combustion

The influence of electrode potential on corrosion and creep behaviour of heat resistant alloy in alkali sulfate melts
By Rahmel, A. Dechema-Institut, Frankfurt/Main, Germany
Proceedings of the International Conference on Ash Deposits and Corrosion from Impurities in Combustion Gases, Henniker, New-Hampshire, p. 185-204, July 1977

0677 92 Conference proceedings, Combustion

Corrosion in reducing atmospheres - a designer's approach
By Probert, P.B. / Katz, L. Babcock & Wilcox Company, Barberton, Ohio
Proceedings of the International Conference on Ash Deposits and Corrosion from Impurities in Combustion Gases, Henniker, New-Hampshire, p. 205-213, July 1977

0677 93 Conference proceedings, Combustion

Direct mass spectrometric sampling of corrosion related gaseous species from laboratory pulverized coal air flames
By Milne, T.A. / Beachey, J.E. / Greene, F.T. Midwest Research Institute, Kansas-City, Missouri
Proceedings of the International Conference on Ash Deposits and Corrosion from Impurities in Combustion Gases, Henniker, New-Hampshire, p. 217-232, July 1977

0677 94 Conference proceedings, Combustion

Chemical transformations of the minerals in eastern bituminous coals under simulated pulverized coal firing conditions
By Stinespring, C.D. / Zulkoski, M. / Mazza, M.H. Morgantown Energy Research Center, Morgantown, West-Virginia
Proceedings of the International Conference on Ash Deposits and Corrosion from Impurities in Combustion Gases, Henniker, New-Hampshire, p. 233-242, July 1977

0677 95 Conference proceedings, Combustion

Rational analysis of fireside deposits from brown coal fired boilers
By Drummond, A.R. / Boar, P.L. / Deed, R.G. Herman Research Laboratory, Victoria, Australia
Proceedings of the International Conference on Ash Deposits and Corrosion from Impurities in Combustion Gases, Henniker, New-Hampshire, p. 243-252, July 1977

0677 96 Conference proceedings, Combustion

Mechanism of sub micron fly ash formation in a cyclone, coal fired boiler
By Ulrich, G.D. / Riehl, J.W. / French, B.R. / Desrosiers, R. University of New-Hampshire, Durham, New-Hampshire
Proceedings of the International Conference on Ash Deposits and Corrosion from Impurities in Combustion Gases, Henniker, New-Hampshire, p. 253-268, July 1977

0677 97 Conference proceedings, Combustion

The effect of Na/Cl on the Na//2/S/O//4 induced hot corrosion of Ni/Al

By Smeggil, J.G. / Bornstein, N.S. / DeCrescente, M.A. United Technologies Research Center, East-Hartford, Connecticut
Proceedings of the International Conference on Ash Deposits and Corrosion from Impurities in Combustion Gases, Henniker, New-Hampshire, p. 271-284, July 1977

0677 98 Conference proceedings, Combustion

Characterization of corrosion and deposits in the laboratory gas turbine simulator burning heavy fuels with additives
By Lee, S.Y. / Spengler, C.J. Westinghouse Research and Development Center, Pittsburgh, Pennsylvania
Proceedings of the International Conference on Ash Deposits and Corrosion from Impurities in Combustion Gases, Henniker, New-Hampshire, p. 285-308, July 1977

0677 99 Conference proceedings, Combustion

Part I: Formation and removal of residual fuel ash deposits in gas turbines formed at firing temperatures below 982 degrees C (1800 degrees F)
By Urbas, T.A. / Tomlinson, L.H. General Electric Company, Schenectady, New-York
Proceedings of the International Conference on Ash Deposits and Corrosion from Impurities in Combustion Gases, Henniker, New-Hampshire, p. 309-320, July 1977

0677 100 Conference proceedings, Combustion

Part II: Formation and removal of residual fuel ash deposits in gas turbines formed at firing temperatures above 982 degrees C (1800 degrees F)
By Urbas, T.A. / Tomlinson, L.H. General Electric Company, Schenectady, New-York
Proceedings of the International Conference on Ash Deposits and Corrosion from Impurities in Combustion Gases, Henniker, New-Hampshire, p. 321-334, July 1977

0677 101 Conference proceedings, Combustion

Water/oil emulsion combustion in boilers and gas turbines
By Zwillenberg, M.L. / Sengupta, C. / Guerra, C.R. Public Service Electric and Gas Company, Newark, New-Jersey
Proceedings of the International Conference on Ash Deposits and Corrosion from Impurities in Combustion Gases, Henniker, New-Hampshire, p. 335-355, July 1977

0677 102 Conference proceedings, Combustion

Technical evaluation of magnesia's influence on fireside deposits, combustion, and emissions on oil fired boilers
By Blauenstein, E. Pentol GmbH, Weil a/Rhein, West-Germany
Proceedings of the International Conference on Ash Deposits and Corrosion from Impurities in Combustion Gases, Henniker, New-Hampshire, p. 359-368, July 1977

0677 103 Conference proceedings, Combustion

An analysis of thermal fatigue crack growth in 2.25% Cr 1% Mo steel superheater tubes caused by on load water deslagging
By Newton, J.D. / Melksham, M.H. Herman Research Laboratory, Victoria, Australia

Proceedings of the International Conference on Ash Deposits and Corrosion from Impurities in Combustion Gases, Henniker, New-Hampshire, p. 369-386, July 1977

0677 104 Conference proceedings, Combustion

Studies of waterwall corrosion with staged combustion of coal
By Manny, E.H. / Bartok, W. / Crawford, A.R. / Hall, R.E. / Vatsky, J. Exxon Research and Engineering Company, Linden, New-Jersey
Proceedings of the International Conference on Ash Deposits and Corrosion from Impurities in Combustion Gases, Henniker, New-Hampshire, p. 387-400, July 1977

0677 105 Conference proceedings, Combustion

Reduction of coal ash deposits with magnesia treatment
By Radway, J.E. / Boyce, T.R. Basic Chemicals, Cleveland, Ohio
Proceedings of the International Conference on Ash Deposits and Corrosion from Impurities in Combustion Gases, Henniker, New-Hampshire, p. 401-414, July 1977

0677 106 Conference proceedings, Combustion

Three years of operating experience with a waterwall boiler at the oceanside disposal plant
By Hecklinger, R.S. / Velzy, C.O. / Kempisty, J.C. Charles O. Velzy Associates, Inc., Armonk, New-York
Proceedings of the International Conference on Ash Deposits and Corrosion from Impurities in Combustion Gases, Henniker, New-Hampshire, p. 417-426, July 1977

0677 107 Conference proceedings, Combustion

Corrosion on refuse incineration boilers, preventive measures
By Nowak, F. Techn. Werke Stuttgart, Waiblingen/BRD, West-Germany
Proceedings of the International Conference on Ash Deposits and Corrosion from Impurities in Combustion Gases, Henniker, New-Hampshire, p. 427-436, July 1977

0677 108 Conference proceedings, Combustion

The causes of boiler metal wastage in the Stadtwerke Duesseldorf incineration plant
By Kautz, K.M. Israel Electric Corporation, Ltd., Haifa, Israel
Proceedings of the International Conference on Ash Deposits and Corrosion from Impurities in Combustion Gases, Henniker, New-Hampshire, p. 437-446, July 1977

0677 109 Conference proceedings, Combustion

Corrosion of an electrostatic precipitator in a municipal incinerator in Sydney, Australia, and some associated research work
By Potter, E.C. / Nancarrow, P.C. CSIRO, Minerals Research Laboratories, North-Ryde, Australia
Proceedings of the International Conference on Ash Deposits and Corrosion from Impurities in Combustion Gases, Henniker,

New-Hampshire, p. 447-454, July 1977

0677 110 Conference proceedings, Combustion

The influence of heavy metals lead and zinc on corrosion and deposits in refuse fired steam generators
By Kerekes, Z.E. / Bryers, R.W. / Sauer, A.R. Foster Wheeler Energy Corporation, Livingston, New-Jersey
Proceedings of the International Conference on Ash Deposits and Corrosion from Impurities in Combustion Gases, Henniker, New-Hampshire, p. 455-472, July 1977

0677 111 Conference proceedings, Combustion

Chloride corrosion and its inhibition in refuse firing
By Vaughan, D.A. / Krause, H.H. / Boyd, W.K. Battelle Columbus Laboratories, Columbus, Ohio
Proceedings of the International Conference on Ash Deposits and Corrosion from Impurities in Combustion Gases, Henniker, New-Hampshire, p. 473-493, July 1977

0677 112 Conference proceedings, Combustion

Corrosion/deposition in fluidized bed combustion power plant systems
By Kealrns, D.L. / Alvin, M.A. / O'Neill, E.P. / Spengler, C.J. / Clark, J.W. / Hamm, J.R. / Sverdrup, E.F.
Westinghouse Research and Development Center, Pittsburgh, Pennsylvania
Proceedings of the International Conference on Ash Deposits and Corrosion from Impurities in Combustion Gases, Henniker, New-Hampshire, p. 497-524, July 1977

0677 113 Conference proceedings, Combustion

Investigation of the corrosion performance of boiler, air heater, and gas turbine alloys in fluidized combustion systems
By Holder, J.C. / LaNauze, R.D. / Rogers, E.A. / Thurlow, G.G. National Coal Board, London, United-Kingdom
Proceedings of the International Conference on Ash Deposits and Corrosion from Impurities in Combustion Gases, Henniker, New-Hampshire, p. 525-536, July 1977

0677 114 Conference proceedings, Combustion

Corrosion of superalloys, inconels, and stainless steels by the products from fluidized bed coal combustion
By Wigton, H.F. Combustion Power Company, Inc., Menlo-Park, California
Proceedings of the International Conference on Ash Deposits and Corrosion from Impurities in Combustion Gases, Henniker, New-Hampshire, p. 537-556, July 1977

0677 115 Conference proceedings, Combustion

Hot corrosion/erosion materials program and experience in the pressurized fluidized bed coal combustion miniplant
By Nutkis, M.S. Exxon Research and Engineering Company, Linden, New-Jersey
Proceedings of the International Conference on Ash Deposits and Corrosion from Impurities in Combustion Gases, Henniker, New-Hampshire, p. 557-560, July 1977

0677 116 Conference proceedings, Combustion

Preliminary report on corrosion analysis of heat exchanger tubes from a fluidized bed coal combustor
By Cooper, R.H. / DeVan, J.H. Oak-Ridge National Laboratory, Oak-Ridge, Tennessee
Proceedings of the International Conference on Ash Deposits and Corrosion from Impurities in Combustion Gases, Henniker, New-Hampshire, p. 561-580, July 1977

0677 117 Conference proceedings, Combustion

Materials tests for an indirect air cooled PFBC combined cycle power plant
By Wolosin, S.M. Curtiss-Wright Corporation, Wood-Ridge, New-Jersey
Proceedings of the International Conference on Ash Deposits and Corrosion from Impurities in Combustion Gases, Henniker, New-Hampshire, p. 581-588, July 1977

0677 118 Conference proceedings, Combustion

High temperature corrosion in fluidized bed combustion
By Stringer, J. Electric Power Research Institute, Palo-Alto, California
Proceedings of the International Conference on Ash Deposits and Corrosion from Impurities in Combustion Gases, Henniker, New-Hampshire, p. 589-599, July 1977

0677 119 Conference proceedings, Combustion

The design of electrode systems and evaluation of electrode materials and semi hot wall MHD channels
By Cadoff, L.H. / Dilmore, J.A. / Lempert, J. / Rossing, B.R. / Smith, H.D. / Turner, A.B. / Young, W.E. / Way, S.
Westinghouse Research and Development Center, Pittsburgh, Pennsylvania
Proceedings of the International Conference on Ash Deposits and Corrosion from Impurities in Combustion Gases, Henniker, New-Hampshire, p. 603-626, July 1977

0677 120 Conference proceedings, Combustion

Coal slag effects in MHD generators
By Loester, J.K. / Rodgers, M.E. / Nelson, R.M. / Eustis, R.H. Stanford University, Stanford, California
Proceedings of the International Conference on Ash Deposits and Corrosion from Impurities in Combustion Gases, Henniker, New-Hampshire, p. 627-650, July 1977

0677 121 Conference proceedings, Combustion

Corrosion and deposits in MHD generator systems
By Dicks, J.B. / Crawford, L.W. / Petersen, C.K. / Beaton, M.S. University of Tennessee Space Institute, Tullahoma, Tennessee
Proceedings of the International Conference on Ash Deposits and Corrosion from Impurities in Combustion Gases, Henniker, New-Hampshire, p. 651-664, July 1977

0677 122 Conference proceedings, Combustion

Controlled utilization of coal slag in the MHD topping cycle
By Stickler, D.B. / DeSaro, R. Avco Everett Research Laboratory, Inc., Everett, Massachusetts
Proceedings of the International Conference on Ash Deposits and Corrosion from Impurities in Combustion Gases, Henniker, New-Hampshire, p. 665-688, July 1977

0677 123 Conference proceedings, Combustion

Research into the combustion and fouling behaviour of brown coals
By Hein, K.R. Rheinisch-Westfalisches, Electrizitatswerk, Essen, West-Germany
Proceedings of the International Conference on Ash Deposits and Corrosion from Impurities in Combustion Gases, Henniker, New-Hampshire, p. 77-84, July 1977

0677 124 Book, Combustion

Energy conversion from coal utilizing CPU 400 technology volume 1
Combustion Power Company, Inc., Menlo-Park, California
United-States Energy Research and Development Administration, March 1977
Report No.: NTIS.FE-1536-1

0677 125 Article, Combustion

Testing, identification, and evaluation of commercial and advanced experimental materials and coatings under design conditions simulating fuel power cycle combinations, Task II - Evaluation of heat exchanger materials for use in coal fired fluidized bed combustion environment, Monthly technical progress report No. 16
By Hall, A.M. Battelle Columbus Laboratories, Columbus, Ohio
United-States Energy Research and Development Administration, Oct. 1977

0677 126 Book, Combustion

Development program for MHD power generation, Disk generator performance, Final report, Volume 2
By Kiepels, J.E. / Hruby, V.J. Avco Everett Research Laboratory, Inc., Everett, Massachusetts
United-States Department of Energy, Washington, D.C., Nov. 1977
Report No.: NTIS.FE-2015-19

0677 127 Book, Combustion

Superconducting magnetohydrodynamics magnet development program. Phase 1, Annual progress report No. 1
By Williams, J.E. Massachusetts Institute of Technology, Cambridge, Massachusetts
United-States Department of Energy, Washington, D.C., Dec. 1977
Report No.: NTIS.MIT-2295T3-1

0677 128 Report, Combustion

A high magnetic field MHD generator program, Annual report, July 1976 - June 1977
By Eustis, R.H. / Kruger, C.H. / Mitchner, M. / Self, S.A. / Koester, J.K. Stanford University, Stanford, California
United-States Department of Energy, Washington, D.C., July 1977
Report No.: NTIS.FE-2341-3

0677 129 Book, Combustion

Critical contributions in MHD power generation, Annual report, June 1976 - May 1977
By Louis, J.F. Massachusetts Institute of Technology, Cambridge, Massachusetts
United-States Department of Energy, Washington, D.C., June 1977
Report No.: NTIS.FE-2215-8

0677 130 Book, Combustion

Supportive studies in fluidized bed combustion
By Vogel, G.J. Argonne National Laboratory, Argonne, Illinois
United-States Energy Research and Development Administration, Washington, D.C., Sept. 1977
Report No.: NTIS.ANL/CEN/FE-77-3

0677 131 Article, Combustion

Modern state of the theory of the combustion of solid fuels and methods for reducing emissions in the combustion of coal
By Delyagin, G.N.
Solid Fuel Chem., Vol. 11, No. 3, p. 66-71, 1977

0677 132 Article, Combustion, Environment

New technique for utilization of high ash and high sulfur coals
By Chowdhury, N.K. Development Consultants Ltd., Calcutta, India
Steam Fuel Users J., Vol. 27, Iss. 3, p. 32-37, 1977

0677 133 Article, Combustion

Detection of changes in the electric fields in the induction period of the spontaneous heating of piled coal
By Obukhov, N.K. / Burkov, P.A. / Aleksandrov, I.V.
Solid Fuel Chem., Vol. 11, No. 4, p. 117-118, 1977

0677 134 Book, Combustion

Development program for MHD power generation. Volume 4. Superconducting magnet study. Final report, July 1975 - June 1976
By Hatch, A.M. / Beals, R.C. / Sofia, A.J. Avco Everett Research Laboratory, Inc., Everett, Massachusetts
United-States Department of Energy, Washington, D.C., Nov. 1977
Report No.: NTIS.FE-2015-16

0677 135 Report, Combustion

Engineer, design, construct, test and evaluate a pressurized fluidized bed pilot plant using high sulfur coal for production of electric power, Phase II pilot plant design. Pilot plant configuration report
Curtiss-Wright Corporation, Wood-Ridge, New-Jersey
United-States Department of Energy, Washington, D.C., Oct. 1977
Report No.: NTIS.FE-1726-40

0677 136 Book, Combustion

Assessment of advanced technology for direct combustion of coal
National Academy of Sciences, Washington, District-of-Columbia
United-States Department of Energy, Washington, D.C., Dec. 1977
Report No.: NTIS.HCP/T1216-0001

0677 137 Report, Combustion

Study of research areas in fluidized bed combustion (FBC) sorption, attrition, and air distribution, Final report
JAYCOR, Del-Mar, California
United-States Department of Energy, Washington, D.C., Jan. 1977
Report No.: NTIS.MERC/8050-1

0677 138 Book, Combustion

Fluid dynamics of a fluidized bed packed with heat exchangers, Annual Report, Feb. 1976 - Jan. 1977, Part A. The pilot fluidized bed - Experiments analysis and conclusions, Part B. The large scale fluidized bed facility
By Zakkay, V. / Brentan, A. / Miller, G. / Kiviat, G. / Panunzio, S. New-York University, New-York, New-York
United-States Department of Energy, Washington, D.C., Jan. 1977
Report No.: NTIS.FE/2256-4

0677 139 Report, Combustion

Design and performance testing of a coal feed and metering system for the MIUS fluidized bed combustor
By Lackey, M.E. Oak-Ridge National Laboratory, Oak-Ridge, Tennessee
United-States Energy Research & Development Administration, Washington, D.C., Dec. 1977
Report No.: NTIS.ORNL/HUD/MIUS-47

0677 140 Article, Combustion

Temperature control in the Exxon fluidized bed combustion miniplant
By Bertrand, R.R. Exxon Research and Engineering Company, Linden, New-Jersey
United-States Department of Energy, Washington, D.C., July 1977
Report No.: NTIS.ANL-78-7

0677 141 Article, Combustion, Transportation

Coal feeding and pneumatic transport
By Smith, R.D. / Phillips, K.E. Combustion Power Company, Inc., Menlo-Park, California
United-States Department of Energy, Washington, D.C., July 1977
Report No.: NTIS.ANL-78-7

0677 142 Book, Combustion

Modeling two phase flow in a swirl combustor. Final Report. ARAP Report No. 310
By Lewellen, W.S. / Segur, H. / Varma, A.K. Aeronautical Research Associates of Princeton, Inc., Princeton, New-Jersey
United-States Department of Energy, Washington, D.C., June 1977
Report No.: NTIS.COO-4062-5

0677 143 Book, Combustion, Properties

Final report on the joint U.S. - U.S.S.R. test of the U.S. MHD electrode system in the U - O2 facility. Phase II. September 1976
Westinghouse Electric Corporation, Pittsburgh, Pennsylvania
United-States Department of Energy, Washington, D.C., Dec. 1977
Report No.: NTIS.FE-2248-16

0677 144 Book, Combustion

High temperature gas turbine engine component materials testing program. Task 1. Annual report for 1976
By Cutrone, M.B. General Electric Company, Schenectady, New-York
Energy Research and Development Administration, Washington, D.C., Jan. 1977
Report No.: NTIS.FE-1767-27

0677 145 Book, Combustion

Development program for MHD direct coal fired power generation test facility, Annual Technical Progress Report, Jan. - Dec. 1976
By Dicks, J.B. / Beaton, M.S. / Scott, M.H. University of Tennessee Space Institute, Tullahoma, Tennessee
Energy Research and Development Administration, Washington, D.C., Jan. 1977
Report No.: NTIS.FE-1760-27

0677 146 Book, Combustion

Evaluation of a pressurized fluidized bed combustion (PFBC) combined cycle power plant conceptual design, Annual Report, June 1976 - June 1977
By Huber, D.A. Burns and Roe Industrial Services Corporation, Paramus, New-Jersey
United-States Department of Energy, Washington, D.C., Sept. 1977
Report No.: NTIS.FE-2371-18

0677 147 Book, Combustion

Pressurized fluidized bed combustion, Report No. 43, Annual Report, July 1976 - June 1977
By Roberts, A.G. / Raven, P. / Wilkins, D.M. National Research Development Corporation, London, United-Kingdom
United-States Department of Energy, Washington, D.C., Sept. 1977
Report No.: NTIS.FE-1511-43

0677 148 Book, Combustion

The effect of bubble behaviour on the scale up of fluidized bed heat exchanger, Final Report
By Thomson, W.J. University of Idaho, Moscow, Idaho
United-States Department of Energy, Washington, D.C., Feb. 1977
Report No.: NTIS.TID-27925

0677 149 Book, Combustion

Carbon dioxide magnetohydrodynamic laser
By Biberman, L.M. / Vorobyov, V.S. / Isanov, R.S. / Karpukhov, V.R. / Korolyov, N.M. / Likalter, A.A. / Malikov, M.M. / Nedosppasov, V.G. / Petrov, V.G. / Stotskiy, G.I. / Sheindlin, A.E. / Shelkov, E.M.
United-States Department of Energy, Washington, D.C., April 1977
Report No.: NTIS.CONF 770402-1

0677 150 Book, Combustion

Development program for MHD power generation. Coal devolatilization. Final report, Vol. VI, July 1975 - Sept. 1976
By Ubhayakar, S.K. / Gannon, R.E. / Stickler, D.B. Avco Everett Research Laboratory, Inc., Everett, Massachusetts
Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.FE-2015-20

0677 151 Conference proceedings, Combustion

Fluidized bed combustion technology exchange workshop, Volume II

United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-2

0677 152 Conference proceedings, Combustion

Design status of an atmospheric pressure fluidized bed combustion/component test and integration unit
By Wilson, J.S. Morgantown Energy Research Center, Morgantown, West-Virginia
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-2

0677 153 Conference proceedings, Combustion

Design status of the pressurized fluidized bed combustion component test and integration unit
By Carls, E.L. / Podolski, W.F. / Ohlsson, O. / Smyk, E.B. / Matousek, J. / Black, E. / Knox, A. / Leffler, L. Argonne National Laboratory, Argonne, Illinois
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-2

0677 154 Conference proceedings, Combustion

Fluidized bed combustion - the Grimethorpe Experimental Facility
By Broadbent, D.H. National Coal Board, London, United-Kingdom
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-2

0677 155 Conference proceedings, Combustion

Further experiments on the pilot scale pressurized combustor at Leatherhead, England
By Hoy, H.R. / Roberts, A.G. National Coal Board, London, United-Kingdom
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-2

0677 156 Conference proceedings, Combustion

Atmospheric fluidized bed combustor technology test unit program
By Fraas, A.P. / Holcomb, R.S. Oak-Ridge National Laboratory, Oak-Ridge, Tennessee
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-2

0677 157 Conference proceedings, Combustion

Babcock and Wilcox 3 feet by 3 feet fluidized bed combustion test facility
By Lange, H.B. Babcock & Wilcox Company, Barberton, Ohio
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-2

0677 158 Conference proceedings, Combustion

Effects of operating parameters on the sulfur retention on alkaline ash during fluidized bed combustion of a North Dakota Lignite
By Goblirsch, G.M. / Sondreal, E.A. Grand-Forks Energy Technology Center, Grand-Forks, North-Dakota
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-2

0677 159 Conference proceedings, Combustion

Multiple feed point CBC test program
By Reed, R.R. Pope, Evans and Robbins, Inc., Alexandria, Virginia
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-2

0677 160 Conference proceedings, Combustion

6 feet by 6 feet FBC development facility
By Strom, S.S. Babcock & Wilcox Company, Alliance, Ohio
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-2

0677 161 Conference proceedings, Combustion

NASA'S pressurized fluidized bed
By Priem, R.J. Lewis Research Center, National Aeronautics and Space Administration, Cleveland, Ohio
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-2

0677 162 Conference proceedings, Combustion

Pressurized FBC studies I. Combustion
By Hoke, R.C. / Nutkis, M.S. / Kinzler, D.D. Exxon Research and Engineering Company, Linden, New-Jersey
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-2

0677 163 Conference proceedings, Combustion

In situ laser measurements in FBC systems
By Busch, C.W. Spectron Development Laboratories, Inc., Costa-Mesa, California
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-2

0677 164 Conference proceedings, Combustion

An on line particulate analyzer for fluidized bed combustion systems
By Van-Valkenburg, E.S. / Muly, E.C. Leeds & Northrup Company, North-Wales, Pennsylvania
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-2

0677 165 Conference proceedings, Combustion

Progress in EPA's fluidized bed combustion environmental assessment and control technology development program
By Murthy, K.S. / Nack, H. Battelle Columbus Laboratories, Columbus, Ohio
United-States Energy Research and Development Administration, Washington, D.C., April 1977

Report No.: NTIS.CONF-770447-P-2

0677 166 Conference proceedings, Combustion

A program for hot corrosion/erosion materials testing for application to fluidized bed coal combustion
By Nutkis, M.S. / Loughnane, M.D. Exxon Research and Engineering Company, Linden, New-Jersey
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-2

0677 167 Conference proceedings, Combustion

The investigation of corrosion performance of boiler and turbine alloys in fluidized bed combustion systems
By Grey, D.A. / McCarron, R.L. General Electric Company, Schenectady, New-York
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-2

0677 168 Conference proceedings, Combustion

Corrosion studies and high temperature filtration
By Van-Grouw, S.J. Combustion Power Company, Inc., Menlo-Park, California
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-2

0677 169 Conference proceedings, Combustion

Environmental assessment of residues from the fluidized bed combustion of coal and the gasification of high sulfur fuel oils
By Stone, R. Ralph Stone and Company, Inc., Los-Angeles, California
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-2

0677 170 Conference proceedings, Combustion

Commercial application studies of fluidized bed combustion residue materials
By Minnick, L.J. / Collins, R.J.
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-2

0677 171 Conference proceedings, Combustion

Enhancement of sorbent utilization by the use of additives
By Gasner, L.L. University of Maryland, College-Park, Maryland
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-2

0677 172 Conference proceedings, Combustion

Regenerable sorbents for fluidized bed combustion
By Ruth, L.A. Exxon Research and Engineering Company, Linden, New-Jersey
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-2

0677 173 Conference proceedings, Combustion

Regeneration of lime for fluidized bed combustion with carbon, with silica and with coal ash
By Yang, R.T. / Steinberg, M. / Shen, M.S. Brookhaven National Laboratory, Upton, New-York
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-2

0677 174 Conference proceedings, Combustion

Pressurized FBC studies II. sorbent regeneration and particulate control
By Ruth, L.A. / Gregory, M.W. / Bertrand, R.R. Exxon Research and Engineering Company, Linden, New-Jersey
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-2

0677 175 Conference proceedings, Combustion

Sulfated limestone regeneration and general FBC support studies
By Jonke, A.A. / Johnson, I. / Vogel, G.J. / Swift, W.M. / Montagna, J.C. Argonne National Laboratory, Argonne, Illinois
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-2

0677 176 Conference proceedings, Combustion

A comprehensive agricultural research program for fluidized bed combustion wastes
By Bennett, O.L. United-States Department of Agriculture, Morgantown, West-Virginia
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-2

0677 177 Conference proceedings, Combustion

Optimizing sorbent utilization in once through atmospheric pressure fluidized bed combustion
By O'Neill, E.P. / Ulerich, N.H. / Keairns, D.L. / Newby, R.A. / Archer, D.H. Westinghouse Research and Development Center, Pittsburgh, Pennsylvania
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-2

0677 178 Conference proceedings, Combustion

Experimental and engineering investigations for the development of fluidized bed combustion processes
By Keairns, D.L. / O'Neill, E.P. / Ulerich, N.H. / Vaux, W.G. / Newby, R.A. / Katta, S. / DeZubay, E.A. / Ciliberti, D.F. / Alvin, M.A. / Sun, C.C. / Peterson, C.H. / Hamm, J.R. / Vidt, E.J. / Archer, D.H. Westinghouse Research and Development Center, Pittsburgh, Pennsylvania
United-States Energy Research and Development Administration, Washington, D.C., Aug. 1977
Report No.: NTIS.CONF-770447-P-2

0677 179 Conference proceedings, Combustion

Proceedings of the fluidized bed combustion technology exchange workshop, Vol.1, April 1977

United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-1

0677 180 Conference proceedings, Combustion

Application of FBC technology to industrial boilers
By Farmer, M.H. Exxon Research and Engineering Company, Linden, New-Jersey
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-1

0677 181 Conference proceedings, Combustion

The application of fluidized bed combustion to refinery process heaters
By Cherrington, D.C. Exxon Research and Engineering Company, Linden, New-Jersey
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-1

0677 182 Conference proceedings, Combustion

Industrial application fluidized bed combustion process
By Hanson, H.A. / DeCoursin, D.G. FluiDyne Engineering Corporation, Minneapolis, Minnesota
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-1

0677 183 Conference proceedings, Combustion

Packaged industrial coal fired fluidized bed boiler concept analysis
By Boland, J. / Kuwata, Y. / Webb, R.L. Trane Company, La-Crosse, Wisconsin
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-1

0677 184 Conference proceedings, Combustion

Industrial application of fluidized bed combustion
By Norcross, W.R. Combustion Engineering, Inc., Windsor, Connecticut
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-1

0677 185 Conference proceedings, Combustion

Georgetown University atmospheric fluidized bed presentation
By Scarbrough, B.A. Georgetown University, Washington, District-of-Columbia
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-1

0677 186 Conference proceedings, Combustion

Coal fired combined cycle development program
By Brooks, R.D. General Electric Company, Schenectady, New-York
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-1

0677 187 Conference proceedings, Combustion

An evaluation study of a pressurized fluidized bed combustion (PFBC) combined cycle power plant concept design, a status report
By Huber, D.A. Burns and Roe Industrial Services Corporation, Paramus, New-Jersey
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-1

0677 188 Conference proceedings, Combustion

Pressurized fluidized bed pilot electric plant
By Moskowitz, S. Curtiss-Wright Corporation, Wood-Ridge, New-Jersey
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-1

0677 189 Conference proceedings, Combustion

Conceptual design of an atmospheric fluidized bed direct combustion power generating plant
By Wells, T.G. / Claypoole, G.T. Stone & Webster Engineering Corporation, Boston, Massachusetts
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-1

0677 190 Conference proceedings, Combustion

Conceptual design of an AFBC electric power generating plant

By Bradley, W.J. Burns and Roe Industrial Services Corporation, Paramus, New-Jersey
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-1

0677 191 Conference proceedings, Combustion

Light off and initial operation of the 30 MWe Rivesville Multicell fluidized bed boiler
By Mesko, J.E. Pope, Evans and Robbins, Inc., Alexandria, Virginia
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-1

0677 192 Conference proceedings, Combustion

Development of fluidized bed combustion systems
By Gamble, R.L. Foster Wheeler Energy Corporation, Livingston, New-Jersey
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-1

0677 193 Conference proceedings, Combustion

TVA AFBC demonstration power plant program preliminary design by Combustion Engineering
By Covell, R.B. Combustion Engineering, Inc., Windsor, Connecticut
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-1

0677 194 Conference proceedings, Combustion

NYSERDA EPRI AFBC retrofit project conceptual boiler design
By Covell, R.B. / Darling, S.L. Combustion Engineering, Inc., Windsor, Connecticut
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-1

0677 195 Conference proceedings, Combustion

Fluid bed utility boilers design considerations
By Hansen, W.A. Babcock & Wilcox Company, Barberton, Ohio
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-1

0677 196 Conference proceedings, Combustion

Fluidized bed combustion research in New York: a step toward breaking the oil habit
By Tourin, R.H. New-York State Energy Research and Development Authority, New-York, New-York
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-1

0677 197 Conference proceedings, Combustion

Battelle's multi solid fluidized bed combustion (MS FBC) process
By Nack, H. / Weller, A.E. / Liu, K.T. Battelle Columbus Laboratories, Columbus, Ohio
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-1

0677 198 Conference proceedings, Combustion

System model and data base system for fluidized bed combustion
By Tung, S.E. / Sarofim, A.F. / Glicksman, L.R. / Louis, J.F. Massachusetts Institute of Technology, Cambridge, Massachusetts
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-1

0677 199 Conference proceedings, Combustion

Dynamic modeling techniques for fluidized bed systems
By Berkowitz, D.A. MITRE Corporation, Westgate Research Park, McLean, Virginia
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-1

0677 200 Conference proceedings, Combustion

Centrifugal fluidized combustion of coal
By Levy, E.K. / Chen, J.C. Lehigh University, Bethlehem, Pennsylvania
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-1

0677 201 Conference proceedings, Combustion

Investigation of methods for improving heat transfer film coefficients in a fluidized bed packed with heat exchangers
By Zakkay, V. / Miller, G. / Brentan, A. New-York University, New-York, New-York
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-1

0677 202 Conference proceedings, Combustion

Fluidized bed modeling studies at University of Illinois at Chicago Circle
By Saxena, S.C. / Grewal, N.S. University of Illinois, Chicago, Illinois
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-1

0677 203 Conference proceedings, Combustion

Bed dynamics and heat transfer at surface of immersed tubes in fluidized beds
By Chen, J.C. Lehigh University, Bethlehem, Pennsylvania
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-1

0677 204 Conference proceedings, Combustion

Oregon State University fluidized bed research
By Fitzgerald, T.J. / Junge, D. / Levenspiel, O. Oregon State University, Corvallis, Oregon
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770447-P-1

0677 205 Book, Combustion

Analysis of combined potassium topping, steam bottom cycles using fluidized bed combustion of consol char. Final Report
By Himmelblau, A. Energy Resources Company, Inc., Cambridge, Massachusetts
Energy Research and Development Administration, Washington, D.C., Feb. 1977
Report No.: NTIS.FE-2201-10

0677 206 Book, Combustion

High temperature turbine technology program. Phase I. Program and system definition. Topical report: low Btu gas combustor technology development plan
Westinghouse Electric Corporation, Lester, Pennsylvania
Energy Research and Development Administration, Washington, D.C., Feb. 1977
Report No.: NTIS.FE-2290-26

0677 207 Book, Combustion

High temperature turbine technology program. Phase I. Program and System definition. Topical report: reference turbine subsystem designs (primary and back up concepts)
Westinghouse Electric Corporation, Lester, Pennsylvania
Energy Research and Development Administration, Washington, D.C., Feb. 1977
Report No.: NTIS.FE-2290-25

0677 208 Book, Combustion

U 25B MHD facility for experiments in the presence of strong electrical and magnetic fields

United-States Department of Energy, Washington, D.C., Nov. 1977
Report No.: NTIS.CONF.771141

0677 209 Report, Combustion

Sulfur removal in fluidized bed combustion
By Little, J.L. Morgantown Energy Research Center, Morgantown, West-Virginia
United-States Energy Research and Development Administration, Washington, D.C., Feb. 1977
Report No.: NTIS.MERC/TPR-77/1

0677 210 Book, Combustion

The furnace combustion and radiation characteristics of methanol and a methanol/coal slurry
By Grosshandler, W.L. University of California, Berkeley, California
United-States Energy Research and Development Administration, Washington, D.C., Jan. 1977
Report No.: NTIS.LBL-5947

0677 211 Book, Combustion

Development of high temperature subsystem technology to a technology readiness state. Phase 1. Topical report: Turbine subsystem preliminary design
By Carlson, N.G. United Technologies Corporation, Farmington, Connecticut
United-States Department of Energy, Washington, D.C., Nov. 1977
Report No.: NTIS.FE-2292-13

0677 212 Book, Combustion

Development of high temperature subsystem technology to a technology readiness state. Phase 1. Topical report: Overall plant design description for operation on coal derived liquid fuel
By Carlson, N.G. United Technologies Corporation, Farmington, Connecticut
United-States Department of Energy, Washington, D.C., Nov. 1977
Report No.: NTIS.FE-2292-18

0677 213 Report, Combustion

Development of high temperature subsystem technology to a technology readiness state. Phase 1. Topical report: Baseline combined cycle system for operation with coal derived liquid fuel
By Carlson, N.G. United Technologies Corporation, Farmington, Connecticut
United-States Department of Energy, Washington, D.C., Nov. 1977
Report No.: NTIS.FE-2292-16

0677 214 Book, Combustion

Development of high temperature subsystem technology to a technology readiness state. Phase 1. Final report, June 1976 - February 1977
By Carlson, N.G. United Technologies Corporation, Farmington, Connecticut
United-States Department of Energy, Washington, D.C., Nov. 1977
Report No.: NTIS.FE-2292-19

0677 215 Book, Combustion

Development of high temperature subsystem technology to a technology readiness state. Phase 1. Topical report, Baseline combined cycle system for operation with coal derived gaseous fuel
By Carlson, N.G. United Technologies Corporation, Farmington, Connecticut
United-States Department of Energy, Washington, D.C., Nov. 1977
Report No.: NTIS.FE-2292-15

0677 216 Report, Combustion

Development of high temperature subsystem technology to a technology readiness state. Phase 1. Topical report, Phase 3 Preliminary turbine subsystem technology readiness verification program plan
By Carlson, N.G. United Technologies Corporation, Farmington, Connecticut
United-States Department of Energy, Washington, D.C., Nov. 1977
Report No.: NTIS.FE-2292-12

0677 217 Book, Combustion

Development of high temperature subsystem technology to a technology readiness state. Phase 1. Topical report, Preliminary combustor design
By Carlson, N.G. United Technologies Corporation, Farmington, Connecticut
United-States Department of Energy, Washington, D.C., Nov. 1977
Report No.: NTIS.FE-2292-11

0677 218 Book, Combustion

Particulate control for pressurized, fluidized bed combustion
By Klett, M.G. / Szwab, W. / Clark, J.P. Gilbert/Commonwealth, Reading, Pennsylvania
United-States Department of Energy, Washington, D.C., Jan. 1977
Report No.: NTIS.FE-2220-16

0677 219 Report, Combustion

Superconducting magnet system for an MHD generator
By Zenkevich, V.B. / Kirenin, I.A. / Tovma, V.A. Academy of Sciences, Moscow, USSR
United-States Department of Energy, Washington, D.C., April 1977
Report No.: NTIS.CONF-770402-5

0677 220 Book, Combustion

Composition and properties of working fluids in open cycle magnetohydrodynamic generators. U.S. - U.S.S.R. cooperative program in MHD power generation
By Nedospasov, A.V. / Poberezhskiy, L.P. / Chernov, Y.G. Academy of Sciences, Moscow, USSR
United-States Department of Energy, Washington, D.C., April 1977
Report No.: NTIS.CONF-770402-7

0677 221 Book, Combustion

Energy conversion from coal utilizing CPU 400 technology, Final report, Volume 1
By Phillips, K.E. Combustion Power Company, Inc., Menlo-Park, California
United-States Energy Research and Development Administration, Washington, D.C., March 1977
Report No.: NTIS.FE-1536-30

0677 222 Book, Combustion

Corrosion and erosion evaluation of turbine materials in an environment simulating the CPU 400 combustor operating on coal. Final report
By Stevens, W.G. / Stetson, A.R.
United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.FE-1536-3

0677 223 Book, Combustion

Final report on the design of the MHD generator channel for the high performance demonstration experiment
By Schmidt, H.J. MEPPSCO, Inc., Boston, Massachusetts
United-States Department of Energy, Washington, D.C., Aug. 1977
Report No.: NTIS.FE-1542-4

0677 224 Book, Combustion

Engineer, design, construct, test and evaluate a pressurized fluidized bed pilot plant using high sulfur coal for production of electric power. Phase 1: Preliminary engineering, Commercial plant conceptual design
Curtiss-Wright Corporation, Wood-Ridge, New-Jersey
United-States Department of Energy, Washington, D.C., March 1977
Report No.: NTIS.FE-1726-20A

0677 225(*) Book, Combustion

Papers from U.S.S.R. publications. Part 1. 1977

Energy Research and Development Administration, Washington, D.C., 1977
Report No.: NTIS.ERDA-tr-263

0677 226 Book, Combustion

Energy Conversion from Coal Utilizing CPU 400 Technology, Final report, Volume 2
By Phillips, K.E. Combustion Power Company, Inc., Menlo-Park, California
United-States Energy Research and Development Administration, Washington, D.C., March 1977
Report No.: NTIS.FE-1536-30

0677 227 Book, Combustion

Study of the Mechanism of the hydrogen sulfide/dolomite reaction, Annual report, July 1976 - June 1977
By Kun, L. / Rogan, F.H. Carnegie-Mellon University, Pittsburgh, Pennsylvania
United-States Department of Energy, Washington, D.C., July 1977
Report No.: NTIS.FE-2408-4

0677 228 Book, Combustion

MHD A study of the processes resulting from the use of alkaline seed in natural gas fired MHD facilities. U.S. U.S.S.R. cooperative program in MHD power generation
By Styrikovich, M.A. / Mostinskii, I.L.
United-States Department of Energy, Washington, D.C., April 1977
Report No.: NTIS.CONF-770402-8

0677 229 Book, Combustion

Engineer, design, construct, test and evaluate a pressurized fluidized bed pilot plant using high sulfur coal for production of electric power. Phase 1: Preliminary engineering. Annual report for March 1976 - February 1977
Curtiss-Wright Corporation, Wood-Ridge, New-Jersey
United-States Department of Energy, Washington, D.C., March 1977
Report No.: NTIS.FE-1726-17A

0677 230 Book, Combustion

Development of high temperature turbine subsystem technology to a technology readiness status. Phase I
By Caruvana, A. General Electric Company, Schenectady, New-York
United-States Department of Energy, Washington, D.C., July 1977
Report No.: NTIS.FE-1806-22

0677 231 Report, Combustion

Pressurized fluidized bed combustion report No. 43
By Hoy, R. National Research Development Corporation, London, United-Kingdom
United-States Department of Energy, Washington, D.C., June 1977
Report No.: NTIS.HCP/T-1511

0677 232 Book, Combustion

Engineer, design, construct, test and evaluate a pressurized fluidized bed pilot plant using high sulfur coal for production of electric power, Phase 1, Preliminary engineering, PFB Combustor/Heat exchanger rig test at Leatherhead
By Roberts, A.G. / Raven, P. / Pillai, K. National Coal Board, London, United-Kingdom
United-States Department of Energy, Washington, D.C., Dec. 1977
Report No.: NTIS.FE-1726-30A

0677 233 Book, Combustion

An analysis of the high temperature particulate collection problem
By Razgaitis, R. Argonne National Laboratory, Argonne, Illinois
United-States Department of Energy, Washington, D.C., Oct. 1977
Report No.: NTIS.ANL-77-14

0677 234 Book, Combustion

Hazard Analysis study for low Btu gasification of coal for electric power generation
By Fink, Z.J. Combustion Engineering, Inc., Windsor, Connecticut
United-States Department of Energy, Washington, D.C., Nov. 1977
Report No.: NTIS.FE-1545-35

0677 235 Book, Combustion

High temperature turbine technology program. Phase I, Topical report. Low Btu combustor technology development program
Curtiss-Wright Corporation, Wood-Ridge, New-Jersey
United-States Department of Energy, Washington, D.C., Feb. 1977
Report No.: FE-2291-16

0677 236 Book, Combustion

High temperature turbine technology program. Phase I, Topical report. Phase III, Preliminary turbine sub system technology readiness verification program plan
Curtiss-Wright Corporation, Wood-Ridge, New-Jersey
United-States Department of Energy, Washington, D.C., Feb. 1977
Report No.: NTIS.FE-2291-17

0677 237 Book, Combustion

An analysis of a high temperature coal combustor according to a one dimensional flow model
By Chung, P.M. / Smith, R.S. Argonne National Laboratory, Argonne, Illinois
United-States Department of Energy, Washington, D.C., Oct. 1977
Report No.: NTIS.ANL/MHD-77-2

0677 238 Book, Combustion

Design of superconducting magnets for MHD applications
By Achkerman, R.A. / Becker, F.E. / Hatch, A.M. / Hay, R.D. / Langton, W.G. / Markiewicz, W.D. / Rhodenizer, B.L. Avco Everett Research Laboratory, Inc., Everett, Massachusetts
United-States Department of Energy, Washington, D.C., June 1977
Report No.: NTIS.FE-2285-19

0677 239 Book, Combustion

MHD - Studies conducted at the U 25 facility (V), U.S. - U.S.S.R. cooperative program in MHD power generation

United-States Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.CONF-770402-2

0677 240 Article, Combustion

Downjet combustion of solid fuels
By Baruwa, A.K. / Sunavala, P.D.
J. Inst. Fuel, June 1977, Vol. 50, p. 76-86, June 1977

0677 241 Book, Combustion

Application of fluidized bed technology to industrial boilers
By Farmer, M.H. / Magee, E.M. / Spooner, F.M. Exxon Research and Engineering Company, Linden, New-Jersey
United-States Energy Research and Development Administration, Washington, D.C., Jan. 1977
Report No.: NTIS.EPA-600/7-77-011

0677 242 Book, Combustion

High temperature turbine technology program. Phase I, Topical report, Coal liquid combined cycle reference design 665 MW commercial power plant with coal liquid source
Curtiss-Wright Corporation, Wood-Ridge, New-Jersey
United-States Department of Energy, Washington, D.C., Feb. 1977
Report No.: NTIS.FE-2291-14

0677 243 Book, Combustion, Properties

Direct sampling and characterization of gaseous species responsible for fireside corrosion in fossil fuel fired systems. Annual report, Phase 1, April 1976 - July 1977
By Greene, F.T. / Beachey, J.E. / Milne, T.A. Midwest Research Institute, Kansas-City, Missouri
United-States Department of Energy, Washington, D.C., Aug. 1977
Report No.: NTIS.FE-2288-19

0677 244 Book, Combustion, Liquefaction, Gasification

Capital cost: High and low sulfur coal plants - 1200 MWe, Volume 3 of 3
United Engineers and Constructors, Inc., Philadelphia, Pennsylvania
United-States Nuclear Regulatory Commission and United-States Department of Energy, Washington, D.C., 1977
Report No.: NTIS.COO-2477-7

0677 245 Book, Combustion

MHD: Experimental studies of an MHD generator in the presence of ash in plasma. U.S. U.S.S.R. cooperative program in MHD power generation
By Burenkov, D.K. / Dolinskii, Y.L. / Zhdankin, V.N. / Zagorodnik, A.V. / Zalkind, V.I. / Zamyslov, O.B. / Kirillov, V.V. / Korostylev, V.F. / Mostinskii, I.L. / Nekhoroshev, R.S. / Sukhov, V.N. / Tagev, S.A. / Shumiatskii, B.Y.
United-States Department of Energy, Washington, D.C., April 1977
Report No.: NTIS.CONF.770402-4

0677 246 Book, Combustion

Project acquisition and evaluation process for atmospheric fluidized bed combustion demonstration plant
Booz, Allen & Hamilton, Inc., Bethesda, Maryland
United-States Department of Energy, Washington, D.C., Sept. 1977
Report No.: NTIS.FE/2343-1

0677 247 Book, Combustion

High temperature turbine technology program. Phase 1, Topical report, Low BTU combustor preliminary designs
Curtiss-Wright Corporation, Wood-Ridge, New-Jersey
United-States Department of Energy, Washington, D.C., Feb. 1977
Report No.: NTIS.FE-2291-16

0677 248 Book, Combustion

Testing and evaluation of MHD materials and sub structures. Annual technical progress report, July 1976 - June 1977
By Murphree, D.L. / Bell, C.J. / Cain, R.W. / Nail, J.B. / Powe, R.E. / Shepard, W.S. / Wehr, A.G. Mississippi-State University, Mississippi-State, Mississippi
United-States Department of Energy, Washington, D.C., July 1977
Report No.: NTIS.FE-2246-4

0677 249 Book, Combustion

Combustion of coal in an opposed flow diffusion burner
By Chin, W.K. / Sawyer, R.F. University of California, Berkeley, California
United-States Department of Energy, Washington, D.C., May 1977
Report No.: NTIS.LBL-6339

0677 250 Article, Combustion

Additives for coal
By Dixit, S.N. / Cuisia, D.G. Dearborn Chemical (US), CHEMED Corporation, Dearborn, Michigan
Combustion, Vol. 49, Iss. 6, p. 32-36, Dec. 1977

0677 251 Report, Combustion

Steam generation with western Canadian coals

By Zavadell, W. / Winship, R.D. Combustion Engineering-Superheater, Ltd., Ottawa, Ontario
Combustion Engineering-Superheater, Ltd., Ottawa, Ontario, Oct. 1977
Report No.: CESL.TIS-5461

0677 252 Report, Combustion

Coal fired power plant capital cost estimates
By Loth, R.A. Bechtel, San-Francisco, California
Electric Power Research Institute, Palo-Alto, California, 60p., Jan. 1977
Report No.: EPRI AF-342

0677 254 Article, Combustion

Electrical behavior of slag coatings in coal fired MHD generators
By Koester, J.K. / Nelson, R.M. Stanford University, Stanford, California
Eng. Aspects Magnetohydrodynamics, Vol. 16, p. VI.2.5-VI.2.12, May 1977

0677 255 Book, Combustion

Studies of the pressurized fluidized bed coal combustion process
By Hoke, R.C. / Bertrand, R.R. / Nutkis, M.S. / Kinzler, D.D. / Ruth, L.A. / Gregory, M.W. / Magee, E.M. Exxon Research and Engineering Company, Linden, New-Jersey
United-States Environmental Protection Agency, Washington, D.C., 199p., Sept. 1977
Report No.: NTIS.EPA-600/7-77-107

0677 256 Book, Combustion, Environment

Magnesia scrubbing applied to a coal fired power plant
By Koehler, G. Chemico Air Pollution Control Company, New-York, New-York
Industrial Env. Res Lab., Res Triangle Park, North-Carolina, 220 p., March 1977
Report No.: EPA-600/7-77-018

0677 257 Report, Combustion

Energy requirements for fluidized bed coal combustion in 800 1,000 MW steam electric power plants
By Wittle, C.E. / Cameron, A.E. Oak-Ridge Associated Universities, Oak-Ridge, Tennessee
Oak-Ridge Associated Universities, 39 p., Feb. 1977
Report No.: ORAU/IEA(M)-77-4

0677 258 Book, Combustion

Final engineering report on the dual mode magnet for high performance demonstration experiment
By Averill, R.J. / Hay, R.D. / Langton, W.G. / Rapperport, E.J. Magnetic Engineering Associates, Inc., Cambridge, Massachusetts
United-States Department of Energy, 179p., July 1977

Report No.: FE/1542-3

0677 259 Book, Combustion

CDIF MHD generator system conceptual design - final report
MEPPSCO, Inc., Boston, Massachusetts
United-States Energy Research and Development Administration, 200p., March 1977
Report No.: TID-27151

0677 260 Conference proceedings, Combustion

Impact of fluidized bed combustion on U.S. coal mining and use
By Grant, A.J. / LaNauze, R.D. Coal Processing Consultants Limited, Pittsburgh, Pennsylvania
National Coal Association/Bituminous Coal Research, Coal Conference and Expo IV, October 18 - 20, 1977, Louisville, Kentucky, 17p., Oct. 1977

0677 261 Conference proceedings, Combustion, Beneficiation

Fuel and ash evaluation to predict electrostatic precipitator performance: a progress report
By Wagoner, C.L. / Barrick, S.M. / Vecci, S.J. / Piulle, W. Babcock & Wilcox Company, Alliance, Ohio
ASME/IEEE Joint Power Generation Conference, Long-Beach, California, Sept. 18/21, 1977, 6p., 1977
Report No.: B&W paper No. RDTPA 77-1

0677 262 Article, Combustion

Evaluation of corrosion rates and metallurigcal stability of boiler components, 30 MW multicell fluidized bed boiler at Rivesville, West Virginia, Executive Summary
Gilbert/Commonwealth, Reading, Pennsylvania
NTIS, United-States Department of Commerce, 55p., March 1977

0678 0 Article, Combustion

Burning coal in CPI Boilers. 1. How coal properties influence handling and combustion
By Corey, R.C.
Chem. Eng. (N.Y.), Vol. 85, Iss. 2, p. 110-19, 1978

0678 1 Article, Combustion, Mining

Studies on the early detection of spontaneous combustion in a hydraulic coal mine
By Chakravorty, R.N. / Feng, K.K.
CIM Bulletin, Jan. 1978, Vol. 71, Iss. 789, p. 83-91, Jan. 1978

0678 2 Article, Combustion, Environment

Utilization characteristics of blending Eastern and Western coals
By Pelley, C.R.
Min. Eng. (N.Y.), Jan. 1978, Vol. 30, Iss. 1, p. 64-71, Jan. 1978

0678 3 Book, Combustion

Energy Management for Furnaces, Kilns, and Ovens NBS Handbook 124
By Wood, L.A. / Ward, J.F. / Kreider, K.G. National Bureau of Standards, Washington, District-of-Columbia
Office of Business Assistance Programs, Office of the Assistant Secretary, Conservation and Solar Application, United-States
Department of Energy, Jan. 1978
Report No.: NTIS.PB-277 704

0678 4 Article, Combustion

Behaviour of natural radionuclides in Western coal fired power plants
By Coles, D.G. / Ragaini, R.C. / Ondov, J.M.
Environ. Sci. Technol., April 1978, Vol. 12, Iss. 4, p. 442-6, April 1978

0678 5 Article, Combustion

Combustion of coal and oil in power station boilers
By Hart, A.B. / Lawn, C.J.
Energy Dig., Vol. 7, No. 1, Feb. 1978, p. 13-17, Feb. 1978

0678 6 Article, Combustion

Cleaning up king coal
By Aronson, R.B.
Mach. Des., Vol. 50, Iss. 12, p. 18-20, 22-3, 1978

0678 7 Article, Combustion

Projection of the slugging bed height in a recirculating fluidized bed
By Yang, W.C. / Keairns, D.L.
Ind. Eng. Chem. Process Des. Dev., Vol. 17, Iss. 3, p. 215-20, 1978

0678 8 Article, Combustion

Performance and Economics of advanced Energy Conversion systems for coal and coal derived fuels
By Corman, J.C. / Fox, G.R.
Journal of Engineering for Power, April, 1978, Vol. 100, p. 252-259, April 1978

0678 9 Article, Combustion

Particulate and sulfur oxide control options for conventional coal combustion
By Byron, R.A. / Saleem, A.
Energy Technol., Vol. 5, p. 142-56, 1978

0678 10 Article, Combustion, Gasification, Liquefaction

Materials problems and opportunities in coal conversion systems
By Stringer, J.
Energy Technol., Vol. 5, p. 527-39, 1978

0678 11 Article, Combustion

A systematic approach to characterizing energy environment tradeoffs for coal utilization technologies
By Rubin, E.S.
Energy Environ., Vol. 5, p. 124-31, 1978

0678 12 Article, Combustion

Recent operating experience of the Wellman Lord FGD process on a coal fired boiler
By Delgado, F.F.
Energy Environ., Vol. 5, p. 398-403, 1978

0678 13 Article, Combustion

Hot corrosion and deposit formation in coal fired fluidized beds
By Bishop, R.J.
Metall. Mater. Technol., March 1978, Vol. 10, Iss. 3, p. 123-7, March 1978

0678 14 Article, Combustion

Impact on ambient air quality of converting power stations and industrial boilers to coal combustion
By Denham, R.S.
Energy Environ., Vol. 5, p. 180-5, 1978

0678 15 Article, Combustion

An overview of presently available coal firing systems
By Fay, G.C.
Am. Ceram. Soc. Bull., Vol. 57, Iss. 5, p. 500-2, 1978

0678 16 Microfiche, Combustion

New processes for the recovery of resource materials from coal combustion wastes
By Seeley, F.G. / McDowell, W.J. / DeCarlo, V.A. Oak-Ridge National Laboratory, Oak-Ridge, Tennessee
Proceedings of the 13th Intersociety Energy Conversion Engineering Conference, Volume 1, San-Diego, California, p. 487-493, Aug. 1978
Report No.: SAE.P-75

0678 17 Microfiche, Combustion

Fluidized bed combustion of low quality fuels
By Mei, J.S. / Grimm, U. / Halow, J.S. Morgantown Energy Research Center, Morgantown, West-Virginia
Proceedings of the 13th Intersociety Energy Conversion Engineering Conference, Volume 1, San-Diego, California, p. 494-499, Aug. 1978
Report No.: SAE.P-75

0678 18 Microfiche, Combustion

Feasibility study of a spreader stoker feed system for over bed feeding of coal in limestone in a utility size fluidized bed steam generator
By Biswas, B.K. Foster Wheeler Energy Corporation, Livingston, New-Jersey
Proceedings of the 13th Intersociety Energy Conversion Engineering Conference, Volume 1, San-Diego, California, p. 500-506, Aug. 1978
Report No.: SAE.P-75

0678 19 Microfiche, Combustion

A review of the PFBC Combined cycle and its influence of gas turbine design parameters
By Morrow, A.J. Preece, Cardew and Rider, Brighton, United-Kingdom
Proceedings of the 13th Intersociety Energy Conversion Engineering Conference, Volume 1, San-Diego, California, p. 507-515, Aug. 1978
Report No.: SAE.P-75

0678 20 Microfiche, Combustion

Conceptual design and cost estimate 600 MWe coal fired fluidized bed combined cycle power plant
By Huber, D.A. / Costello, R.M. Burns and Roe Industrial Services Corporation, Paramus, New-Jersey
Proceedings of the 13th Intersociety Energy Conversion Engineering Conference, Volume 1, San-Diego, California, p. 516-522, Aug. 1978
Report No.: SAE.P-75

0678 21 Microfiche, Combustion

Factors limiting limestone utilization efficiency in fluidized bed combustors
By Johnson, I. / Shearer, J. / Snyder, R.B. / Vogel, G.J. Argonne National Laboratory, Argonne, Illinois
Proceedings of the 13th Intersociety Energy Conversion Engineering Conference, Volume 1, San-Diego, California, p. 523-528, Aug. 1978
Report No.: SAE.P-75

0678 22 Microfiche, Combustion

Solids mixing and fluidization characteristics in a tube filled bed
By Weiner, S.C. / Golan, L.P. / Cherrington, D.C. Exxon Research and Engineering Company, Florham-Park, New-Jersey
Proceedings of the 13th Intersociety Energy Conversion Engineering Conference, Volume 1, San-Diego, California, p. 529-539, Aug. 1978
Report No.: SAE.P-75

0678 23 Microfiche, Combustion

Circulating bed boiler concepts for steam and power generation
By Kearns, D.L. / Yang, W.C. / Newby, R.A. / Hamm, J.R. / Archer, D.H. Westinghouse Research and Development Center, Pittsburgh, Pennsylvania
Proceedings of the 13th Intersociety Energy Conversion Engineering Conference, Volume 1, San-Diego, California, p. 540-547, Aug. 1978
Report No.: SAE.P-75

0678 24 Microfiche, Combustion

Aspects of pulsating combustion
By Reader, G.T. Royal Naval Engineering College, Plymouth
Proceedings of the 13th Intersociety Energy Conversion Engineering Conference, Volume 1, San-Diego, California, p. 548-557, Aug. 1978
Report No.: SAE.P-75

0678 25 Microfiche, Combustion

Preliminary controller evaluation for the MERC/CTIU using a mathematical process model
By Ray, A. / Sumaria, V.H. / Berkowitz, D.A. MITRE Corporation, Westgate Research Park, McLean, Virginia
Proceedings of the 13th Intersociety Energy Conversion Engineering Conference, Volume 1, San-Diego, California, p. 558-563, Aug. 1978
Report No.: SAE.P-75

0678 26 Microfiche, Combustion

Alternatives for coal based power generation: An international overview
By Forrester, R.C. / Johnston, R. / Teper, M. IEA Coal Research, London, United-Kingdom
Proceedings of the 13th Intersociety Energy Conversion Engineering Conference, Volume 1, San-Diego, California, p. 564-573, Aug. 1978
Report No.: SAE.P-75

0678 27 Microfiche, Combustion, Gasification

Computer aided optimization of integrated coal gasification combined cycle power plants

By Adibhatla, S. / Leigh, D.C. University of Kentucky, Lexington, Kentucky
Proceedings of the 13th Intersociety Energy Conversion Engineering Conference, Volume 1, San-Diego, California, p. 574-585, Aug. 1978
Report No.: SAE.P-75

0678 28 Microfiche, Combustion

On line monitoring of major ash elements in coal conversion processes
By Stewart, R.F. / Hall, A.W. Morgantown Energy Research Center, Morgantown, West-Virginia
Proceedings of the 13th Intersociety Energy Conversion Engineering Conference, Volume 1, San-Diego, California, p. 586-591, Aug. 1978
Report No.: SAE.P-75

0678 29 Microfiche, Combustion, Liquefaction

Design study for a coal/oil slurry pumping and preheating system
By Fein, H.L. / Parekh, R.D. / Larosa, P.J. TRW Energy Systems Planning Division, McLean, Virginia
Proceedings of the 13th Intersociety Energy Conversion Engineering Conference, Volume 1, San-Diego, California, p. 592-601, Aug. 1978
Report No.: SAE.P-75

0678 30 Microfiche, Combustion

Solids handling and fluidized bed combustion techniques developed for an HTGR fuel reprocessing pilot plant
By Richards, P.C. / Rickman, W.S. / Young, D.T. General Atomic Company, San-Diego, California
Proceedings of the 13th Intersociety Energy Conversion Engineering Conference, Volume 1, San-Diego, California, p. 602-608, Aug. 1978
Report No.: SAE.P-75

0678 31 Microfiche, Combustion

Pressurized fluidized bed combustion/component test and integration unit preliminary design report
By Podolski, W.F. / Crawford, R.W. Argonne National Laboratory, Argonne, Illinois
Proceedings of the 13th Intersociety Energy Conversion Engineering Conference, Volume 1, San-Diego, California, p. 609-616, Aug. 1978
Report No.: SAE.P-75

0678 32 Microfiche, Combustion

Eductor performance in the coal feed system of a fluidized bed combustor
By Roth, L.P. / Divilio, R.J. / Reed, R.R. Pope, Evans and Robbins, Inc., Alexandria, Virginia
Proceedings of the 13th Intersociety Energy Conversion Engineering Conference, Volume 1, San-Diego, California, p. 617-621, Aug. 1978
Report No.: SAE.P-75

0678 33 Microfiche, Combustion

Low Btu gas from the IGT ash agglomeration gasification process
By Rehmat, A.G. / Vora, M.K. / Sandstrom, W.A. Institute of Gas Technology, Chicago, Illinois
Proceedings of the 13th Intersociety Energy Conversion Engineering Conference, Volume 1, San-Diego, California, p. 622-627, Aug. 1978
Report No.: SAE.P-75

0678 34 Microfiche, Combustion

The Lash (laser ash) particulate fragmentation removal concept for coal fired turbine power plants
By Botts, T.E. / Powell, J.R. Brookhaven National Laboratory, Upton, New-York
Proceedings of the 13th Intersociety Energy Conversion Engineering Conference, Volume 1, San-Diego, California, p. 628-634, Aug. 1978
Report No.: SAE.P-75

0678 35 Microfiche, Combustion

Heat exchanger designs for coal fired fluidized bed
By Zakkay, V. / Miller, G. New-York University, New-York, New-York
Proceedings of the 13th Intersociety Energy Conversion Engineering Conference, Volume 1, San-Diego, California, p. 635-641, Aug. 1978
Report No.: SAE.P-75

0678 36 Conference proceedings, Combustion

Design of solid handling elements of a pressurized fixed bed coal gasifier
By Csamer, R.P. Morgantown Energy Research Center, Morgantown, West-Virginia
Proceedings of the 13th Intersociety Energy Conversion Engineering Conference, Volume One, San-Diego, California, p. 581-585, Aug. 1978
Report No.: SAE.P-75

0678 37 Conference proceedings, Combustion, Gasification, Liquefaction

Proceedings of the 13th Intersociety Energy Conversion Engineering Conference, San Diego, California, Volume one of three

Society of Automotive Engineerings, Inc., Warrendale, PA, Aug. 1978
Report No.: SAE.P-75

0678 38 Conference proceedings, Combustion, Gasification, Liquefaction

Proceedings of the 13th Intersociety Energy Conversion Engineering Conference, San Diego, California, Volume two of three

Society of Automotive Engineerings, Inc., Warrendale, PA, Aug. 1978
Report No.: SAE.P-75

0678 39 Conference proceedings, Combustion, Gasification, Liquefaction

Proceedings of the 13th Intersociety Energy Conversion Engineering Conference, San Diego, California, Volume three of three

Society of Automotive Engineerings, Inc., Warrendale, PA, Aug. 1978
Report No.: SAE.P-75

0678 40 Article, Combustion

Coal fired power plant trace element study
By Thoem, T.L. Office of Energy Activities, Denver, Colorado
Energy Environ., Vol. 5, p. 223-9, 1978

0678 41 Article, Combustion

Adapt fluidized bed coal firing to process heaters
By Cherrington, D.C. / Golan, L.P.
Hydrocarbon Process, Vol. 57, No. 5, May 1978, p. 145-50, May 1978

0678 42 Article, Combustion

Controlling nitrogen oxides (NOx) from a coal fired MHD process
By Strom, S.S. / Chapman, J.N. / Muehlhauser, J.W.
Proc. - Intersoc. Energy Convers. Eng. Conf., Vol. 13, Iss. 2, p. 1267-1273, 1978
Report No.: SAE.P-75

0678 43 Article, Combustion

Fired Heaters - II. Construction materials, mechanical features, performance monitoring
By Berman, H.L.
Chem. Eng. (New-York), Vol. 85, No. 17, July 1978, p. 87-96, Jan. 1978

0678 44 Polish Article, Combustion

Low temperature combustion of solid fuels in restrained fluidized beds
By Rassudov, N.S. / Shmyakin, V.N.
Energomashinostroenie, No. 2, p. 1-3, 1978

0678 45 Article, Combustion

Impact of fuel on precipitator performance
By Frisch, N.W. / Dorchak, T.P.
Pollut. Eng., Vol. 10, Iss. 5, 1978

0678 46 Article, Combustion

Solid waste and coal firing in industrial boilers
By Fernandes, J.H. / Prohazka, G.J.
Proceedings of the Fifth Energy Technology Conference, Washington, D.C., March 1978

0678 47 Article, Combustion

Commercialization of fluidized bed combustion systems by the state of Ohio
By Johnson, E.K. / Ryan, R.S. / Grant, A.J.
Proceedings of the Fifth Energy Technology Conference, Washington, D.C., March 1978

0678 48 Article, Combustion

Burning coal in fluidized beds
By McKenzie, E.C.
Chem Eng. New-York, Vol. 85, No. 18, Aug. 1978, p. 116-127, Aug. 1978

0678 49 Report, Combustion

Evaluation of the ECAS open cycle MHD power plant design
By Seikel, G.R. / Staiger, P.J. Lewis Research Center, National Aeronautics and Space Administration, Cleveland, Ohio
United-States Department of Energy, Washington, D.C., Nov. 1978
Report No.: NTIS.DOE/NASA/2674-78/2

0678 50 Article, Combustion, Liquefaction

Small scale evaluation of the combustion and emission characteristics of SRC oil
By Muzio, L.J. / Arand, J.K. KVB, Inc., Tustin, California
American Chemical Society, Division of Fuel Chemistry, preprints of papers presented at Anaheim, California, Vol. 23, No. 1, March 1978

0678 51 Article, Combustion, Liquefaction

Utilization of coal derived liquid fuels in a combustion turbine engine
By Cabal, A.V. / Dabkowski, M.J. / Heck, R.H. / Stein, T.R. / Chamberlin, R.M. / Mulik, P.R. / Singh, P.P. / Rovesti, W.C.
American Chemical Society, Division of Fuel Chemistry, preprints of papers presented at Anaheim, California, Vol. 23, No. 1, March 1978

0678 52 Book, Combustion

Evaluation of electrostatic precipitator during SRC combustion tests

Report No.: NTIS.FE-1760-31

0678 104 Book, Combustion

Evaluation of a pressurized fluidized bed combustion (PFBC) combined cycle power plant conceptual design, Final Report, Volume III, Trade Off studies, Subtask 1.3
Burns and Roe Industrial Services Corporation, Paramus, New-Jersey
United-States Department of Energy, Washington, D.C., June 1978
Report No.: NTIS.FE-2371-36

0678 105 Book, Combustion

MHD ETF conceptual design, Volume III - Definition of concepts
By Retallick, F.D. Westinghouse Electric Corporation, Pittsburgh, Pennsylvania
United-States Department of Energy, Washington, D.C., April 1978
Report No.: NTIS.FE-2363-2

0678 106 Article, Combustion, Gasification, Properties

Cold flow mixing rates with recirculation for pulverized coal reactors
By Tice, C.L. / Smoot, L.D.
AIChE Journal, Vol. 24, Iss. 6, p. 1029-35, 1978

0678 107 Report, Combustion

Instabilities in a coal burning fluidized bed
By Thompson, A.S. Oak-Ridge National Laboratory, Oak Ridge, Tennessee
United-States Department of Energy, Washington, D.C., Nov. 1978
Report No.: NTIS.ORNL/HUD/MIUS-38

0678 108 Article, Combustion

Operation results of the IHI chiyoda flue gas desulfurization system for coal fired utility power stations
By Sugita, Y.
IHI Engineering Review, Vol. 11, Iss. 4, p. 31-43, 1978

0678 109(*) Conference proceedings, Combustion

The fourth U.S. - U.S.S.R. colloquium on magnetohydrodynamic electrical power generation

United States Department of Energy, Washington, D.C., Oct. 1978
Report No.: NTIS CONF-781009

0678 110 Book, Combustion

Interim report on the performance of 400 megawatt and larger nuclear and coal fired generating units, Performance through 1975

United States Department of Energy, Washington, D.C., April 1978
Report No.: NTIS/DOE/EIA-0007

0678 111 Conference proceedings, Combustion

Flow regimes in vertical gas solid contact systems
By Yerushalmi, J. / Cankurt, N.T. / Geldart, D. / Liss, B.
American Institute of Chemical Engineers, Symposium Series 176, Vol 74, 1978
Report No.: AICH.176

0678 112 Conference proceedings, Combustion

Flow regimes and void fraction distribution in gas fluidization of large particles in beds without tube banks
By Canada, G.S. / McLaughlin, M.H. / Staub, F.W. General Electric Company, Schenectady, New-York
American Institute of Chemical Engineers, Symposium Series 176, Vol 74, 1978
Report No.: AICH.176

0678 113 Conference proceedings, Combustion

Large particle fluidization and heat transfer at high pressures
By Canada, G.S. / McLaughlin, M.H. General Electric Company, Schenectady, New-York
American Institute of Chemical Engineers, Symposium Series 176, Vol 74, 1978
Report No.: AICH.176

0678 114 Conference proceedings, Combustion

The flow of fine, dense solids down a vertical standpipe
By Judd, M.R. / Dixon, P.D. University of Natal, Durban, South-Africa
American Institute of Chemical Engineers, Symposium Series 176, Vol 74, 1978
Report No.: AICH.176

0678 115 Conference proceedings, Combustion

Mixing and segregation of a small proportion of large particles in gas fluidized beds of considerably smaller ones
By Nienow, A.W. / Rowe, P.N. / Chiba, T. University College, London, United-Kingdom
American Institute of Chemical Engineers, Symposium Series 176, Vol 74, 1978
Report No.: AICH.176

0678 116 Conference proceedings, Combustion

Solids mixing in fluidized beds of large particles
By Cranfield, R.R. Marchwood Engineering Laboratories, Marchwood, Southampton, Hampshire, United-Kingdom
American Institute of Chemical Engineers, Symposium Series 176, Vol 74, 1978
Report No.: AICH.176

0678 117 Conference proceedings, Combustion

Slugging in beds of large particles
By Geldart, D. / Hurt, J.M. / Wadia, P.H. University of Bradford, Bradford, West-Yorkshire, United-Kingdom
American Institute of Chemical Engineers, Symposium Series 176, Vol 74, 1978
Report No.: AICH.176

0678 118 Conference proceedings, Combustion

Entrainment of particles from aggregative fluidized beds
By George, S.E. / Grace, J.R. McGill University, Montreal, Quebec
American Institute of Chemical Engineers, Symposium Series 176, Vol 74, 1978
Report No.: AICH.176

0678 119 Conference proceedings, Combustion

Transfer of solids between parallel fluidized beds
By Chen, T.Y. / Walawender, W.P. / Fan, L.T. Kansas State University, Manhattan, Kansas
American Institute of Chemical Engineers, Symposium Series 176, Vol 74, 1978
Report No.: AICH.176

0678 120 Conference proceedings, Combustion

Holdup, mass transfer, and mixing in three phase fluidization
By Ostergaard, K. Technical University of Denmark, Lyngby, Denmark
American Institute of Chemical Engineers, Symposium Series 176, Vol 74, 1978
Report No.: AICH.176

0678 121 Conference proceedings, Combustion

Simulation and modeling of start up and shutdown in a pilot scale recirculating fluidized bed coal devolatilizer
By Yang, W.C. / Margaritis, P.J. / Keairns, D.L. Westinghouse Electric Corporation, Pittsburgh, Pennsylvania
American Institute of Chemical Engineers, Symposium Series 176, Vol 74, 1978
Report No.: AICH.176

0678 122 Conference proceedings, Combustion

Simulation of fluidized bed combustors: Part I. Combustion efficiency and temperature profile
By Horio, M. / Wen, C.Y. West-Virginia University, Morgantown, West-Virginia
American Institute of Chemical Engineers, Symposium Series 176, Vol 74, 1978

Report No.: AICH.176

0678 123 Conference proceedings, Combustion

Simulation of fluidized bed combustors: Part II. Coal devolatilization and sulfur oxides retention
By Rajan, R.R. / Krishnan, R. / Wen, C.Y. West-Virginia University, Morgantown, West-Virginia
American Institute of Chemical Engineers, Symposium Series 176, Vol 74, 1978
Report No.: AICH.176

0678 124 Conference proceedings, Combustion

Mathematical model for predicting efficiency of fluidized bed steam generators
By Baron, R.E. / Hodges, J.L. / Sarofim, A.F. Massachusetts Institute of Technology, Cambridge, Massachusetts
American Institute of Chemical Engineers, Symposium Series 176, Vol 74, 1978
Report No.: AICH.176

0678 125 Conference proceedings, Combustion

Fluidized bed catalytic reactor according to a statistical fluid mechanics model
By Bywater, R.J. Aerospace Corporation, El-Segundo, California
American Institute of Chemical Engineers, Symposium Series 176, Vol 74, 1978
Report No.: AICH.176

0678 126 Conference proceedings, Combustion

A numerical model of gas fluidized bed
By Pritchett, J.W. / Blake, T.R. / Garg, S.K. Systems, Science and Software, La-Jolla, California
American Institute of Chemical Engineers, Symposium Series 176; Vol 74, 1978
Report No.: AICH.176

0678 127 Conference proceedings, Combustion

A mechanistic model applicable to coal combustion in fluidized beds
By Chen, T.P. / Saxena, S.C. University of Illinois, Chicago, Illinois
American Institute of Chemical Engineers, Symposium Series 176, Vol 74, 1978
Report No.: AICH.176

0678 128 Conference proceedings, Combustion

Development of fluidized combustion boilers for Indian coals
By Abbi, Y.P. / Banerji, M. / Ghosh, M.K. / Malliah, K.T. / Sharan, H.N. Bharat Heavy Electric Ltd., New-Delhi, India
American Institute of Chemical Engineers, Symposium Series 176, Vol 74, 1978
Report No.: AICH.176

0678 129 Conference proceedings, Combustion

HTGR fuel reprocessing fluidized bed burner development at ACC
By Palmer, W.B. Allied Chemical Corporation, Idaho-Falls, Idaho
American Institute of Chemical Engineers, Symposium Series 176, Vol 74, 1978
Report No.: AICH.176

0678 130 Conference proceedings, Combustion

Fluidization correlations for coal gasification materials minimum fluidization velocity and fluidized bed expansion ratio
By Babu, S.P. / Shah, B. / Talwalkar, A. Institute of Gas Technology, Chicago, Illinois
American Institute of Chemical Engineers, Symposium Series 176, Vol 74, 1978
Report No.: AICH.176

0678 131 Conference proceedings, Combustion

Bed to wall heat transfer in a fluidized bed coal combustor
By Basu, P. Central Mechanical Engineering Research Institute, Durgapur, India
American Institute of Chemical Engineers, Symposium Series 176, Vol 74, 1978
Report No.: AICH.176

0678 132 Conference proceedings, Combustion

Gas convective heat transfer to packed and fluidized beds
By Botterill, J.S. / Denloye, A.O. University of Birmingham, Birmingham, United-Kingdom
American Institute of Chemical Engineers, Symposium Series 176, Vol 74, 1978
Report No.: AICH.176

0678 133 Conference proceedings, Combustion

Regeneration of sulfated dolomite by reductive decomposition with coal in a fluidized bed reactor
By Montagna, J.C. / Swift, W.M. / Smith, G.W. / Vogel, G.J. / Jonke, A.A. Argonne National Laboratory, Argonne, Illinois
American Institute of Chemical Engineers, Symposium Series 176, Vol 74, 1978
Report No.: AICH.176

0678 134 Conference proceedings, Combustion

High temperature fluidization and agglomeration characteristics of limestone and coal ash particle systems
By Montagna, J.C. / Nunes, F.F. / Smith, G.W. / Vogel, G.J. / Jonke, A.A. Argonne National Laboratory, Argonne, Illinois
American Institute of Chemical Engineers, Symposium Series 176, Vol 74, 1978
Report No.: AICH.176

0678 135 Conference proceedings, Combustion

Fly ash combustion in a fluidized bed boiler
By Divilio, R.J. / Reed, R.R. Pope, Evans and Robbins, Inc., Alexandria, Virginia
American Institute of Chemical Engineers, Symposium Series 176, Vol 74, 1978
Report No.: AICH.176

0678 136 Conference proceedings, Combustion

Design of recirculating fluidized beds for commercial applications
By Yang, W.C. / Keairns, D.L. Westinghouse Electric Corporation, Pittsburgh, Pennsylvania
American Institute of Chemical Engineers, Symposium Series 176, Vol 74, 1978
Report No.: AICH.176

0678 137 Conference proceedings, Combustion

An experimental study of the combustion of coke breeze in a fluidized bed combustor
By Taylor, T.E. / Biswas, B.K. / Bryers, R.W. / Taoda, K. / Togawa, T. John Blizzard Research Centre, Livingston, New-Jersey
American Institute of Chemical Engineers, Symposium Series 176, Vol 74, 1978
Report No.: AICH.176

0678 138 Conference proceedings, Combustion

Development of feed systems for pressurized coal conversion processes
By Chandrasekhar, R. / Harding, J.C. Foster-Miller Associates, Inc., Waltham, Massachusetts
American Institute of Chemical Engineers, Symposium Series 176, Vol 74, 1978
Report No.: AICH.176

0678 139 Conference proceedings, Combustion

Fluidization: Application to coal conversion processes
By Wen, C.Y. American Institute of Chemical Engineers, New-York, New-York
American Institute of Chemical Engineers, Symposium Series 176, Vol. 74, 1978
Report No.: AICH.176

0678 140 Article, Combustion

A facility for simulating the gas stream environment in a coal burning MHD power plant
By Powe, R.E.
J. Miss. Acad. Sci., Vol. 23, p. 46-52, 1978

0678 141 Article, Combustion

Abatement of nitric oxide emission in fluidized bed combustion of coal

By Furusawa, T. / Honda, T. / Takano, J.
J Chem Eng Jpn, Vol. 11, No. 5, Oct. 1978, p. 377-384, Oct. 1978

0678 142 Article, Combustion, Environment

Coal combustion: source of toxic elements in urban air?
By Gladney, E.S. / Gordon, G.E. / Zoller, W.H.
J Environ Sci Heath Part A, Vol. A13, No. 7, p. 481-491, 1978

0678 143 Report, Combustion

Conceptual design for an atmospheric fluidized bed direct combustion power generating plant. Phase I. Commercial Plant conceptual design. Annual report, January 1978
By Norton, R.C. Stone & Webster Engineering Corporation, Boston, Massachusetts
United-States Department of Energy, Washington, D.C., Feb. 1978
Report No.: NTIS.FE-2583-13

0678 144 Article, Combustion, Environment

Deposition/corrosion in coal fired fluidized beds
By Bishop, R.J.
Energy World, No. 52, Oct. 1978, p. 5, 7-8, Oct. 1978

0678 145 Book, Combustion

Granular bed filter development program. Cold flow test program, Data Analysis and observations
By Guillory, J.L. Combustion Power Company, Inc., Menlo-Park, California
United-States Department of Energy, Washington, D.C., Jan. 1978
Report No.: NTIS.FE-2579-15

0678 146 Book, Combustion

CFCC development program. Combustion chemistry evaluation (Task 4.4)
General Electric Company, Schenectady, New-York
United-States Department of Energy, Washington, D.C., Aug. 1978
Report No.: NTIS.FE-2357-40

0678 147 Book, Combustion

CFCC development program. Advanced clean up hardware performance guidelines for commercial plant (Task 4.1.2)
General Electric Company, Schenectady, New-York, March 1978
Report No.: NTIS.FE-2357-37

0678 148 Book, Combustion

CFCC development program. Preliminary turbine materials evaluation for commercial plant (Task 3)
General Electric Company, Schenectady, New-York
United-States Department of Energy, Washington, D.C., March 1978
Report No.: NTIS.FE-2357-34

0678 149 Book, Combustion

CFCC development program, Commercial plant hot gas shrouded ducting evaluation (Task 2.2)
General Electric Company, Schenectady, New-York
United-States Department of Energy, Washington, D.C., June 1978
Report No.: NTIS.FE-2357-33

0678 150 Book, Combustion

The effect of sodium chloride on the reaction of SO//2/O//2 mixtures with limestones and dolomites
By Shearer, J.A. / Johnson, I. / Turner, C.B. Argonne National Laboratory, Argonne, Illinois
United-States Department of Energy, Washington, D.C., June 1978
Report No.: NTIS.ANL/CEN/FE-78-8

0678 151 Book, Combustion

CFCC development program. Hot gas clean up efflux characterization for commercial plant (Task 4.1.1)
General Electric Company, Schenectady, New-York
United-States Department of Energy, Washington, D.C., March 1978
Report No.: NTIS.FE-2357-36

0678 152 Book, Combustion

CFCC development program. Commercial plant design definition (Task 1.2)
General Electric Company, Schenectady, New-York
United-States Department of Energy, Washington, D.C., March 1978
Report No.: NTIS.FE-2357-28

0678 153 Book, Combustion

MHD ETF program final report, Volume 4B, Appendices A04 - A08, January 1977 - March 1978
General Electric Company, Philadelphia, Pennsylvania
United-States Department of Energy, Washington, D.C., March 1978
Report No.: NTIS.FE-2613-6

0678 154 Book, Combustion

Evaluation of a pressurized fluidized bed combustion (PFBC) combined cycle power plant conceptual design. Final report.

Volume II. Commercial plant design description and economic analysis, Subtask 1.2
By Huber, D.A. / Costello, R.M. / Saha, A.K. / Salviani, J. / Smith, J.W. Burns and Roe Industrial Services Corporation, Paramus, New-Jersey
United-States Department of Energy, Washington, D.C., June 1978
Report No.: NTIS.FE-2371-36

0678 155 Book, Combustion

Evaluation of a pressurized fluidized bed combustion (PFBC) combined cycle power plant conceptual design. Final report. Volume IV, Evaluation of Alternate Plant Approaches, Subtask 1.7
By Huber, D.A. Burns and Roe Industrial Services Corporation, Paramus, New-Jersey
United-States Department of Energy, Washington, D.C., June 1978
Report No.: NTIS.FE-2371-36

0678 156 Book, Combustion

Evaluation of a pressurized fluidized bed combustion (PFBC) combined cycle power plant conceptual design. Final report. Volume III, Trade off studies, Subtask 1.3
By Huber, D.A. Burns and Roe Industrial Services Corporation, Paramus, New-Jersey
United-States Department of Energy, Washington, D.C., June 1978
Report No.: NTIS.FE-2371-36

0678 157 Book, Combustion

Granular bed filter development program. Final report
By Wade, G.L. / Wigton, H.F. / Guillory, J.L. / Goldbach, G. / Phillips, K.E. Combustion Power Company, Inc., Menlo-Park, California
United-States Department of Energy, Washington, D.C., April 1978
Report No.: NTIS.FE-2579-19

0678 158 Book, Combustion

Procedures for cost analyses of coal oil mixture (COM) combustion projects
Mitre Corporation, Westgate Research Park, McLean, Virginia
United-States Department of Energy, Washington, D.C., April 1978
Report No.: NTIS.HCP/T2453-01

0678 159 Book, Combustion

U.S./U.S.S.R. cooperative program in open cycle MHD electrical power generation. Joint test report No. 1. Initial Test of the U 25B facility: Shakedown Test No. 1 and MHD Generator Test No. 2
By Tempelmeyer, K.E. / Sokolov, Y.N. Argonne National Laboratory, Argonne, Illinois
United-States Department of Energy, Washington, D.C., April 1978
Report No.: NTIS.ANL-IVTAN-MHD-1

0678 160 Book, Combustion

A review of spontaneous combustion problems and controls with application to U.S. coal mines. Final technical report. Contractor - PD - NCB Consultants Limited. Dames & Moore
By Bacharach, J.P. / Chamberlain, E.A. / Hall, D.A. / Lord, S.B. / Steele, D.J. PD-NCB Consultants Limited, Enfield, Middlesex, United-Kingdom
United-States Department of Energy, Washington, D.C., Sept. 1978
Report No.: NTIS.TID-28879

0678 161 Book, Combustion

Preliminary design study for a fluidized bed demonstration unit. Final report
Combustion Engineering, Inc., Windsor, Connecticut
United-States Department of Energy, Washington, D.C., June 1978
Report No.: NTIS.TID-28598

0678 162 Article, Combustion

Time resolution of rapid processes using numerical calculation and inversion of laplace transforms
By Hahn, W.A. / Wendt, J.O.
AIChE Journal, Vol. 24, No. 6, Nov. 1978, p. 1080-1087, Nov. 1978

0678 163 Article, Combustion, Environment

Operating costs of particulate removal schemes
By Vogelsang, C.W.
Chem Eng Prog, Vol. 74, No. 12, Dec. 1978, p. 55-58, Dec. 1978

0678 164 Article, Combustion

Impact of fuel on furnace design for pulverized coal fired boilers
By Pacer, D.W. / Duzy, A.F.
Power, Vol. 122, No. 9, Sept. 1978, p. 82-83, Sept. 1978

0678 165 Book, Combustion

Program plan for development of heat and seed recovery components for a coal fired, open cycle MHD power plant
Argonne National Laboratory, Argonne, Illinois
United-States Department of Energy, Washington, D.C., June 1978
Report No.: NTIS.ANL/MHD-78-6

0678 166 Book, Combustion

Conceptual design of an atmospheric fluidized bed combustion electric power generating plant. Interim report. Volume 1
Burns and Roe Industrial Services Corporation, Paramus, New-Jersey

United-States Department of Energy, Washington, D.C., Dec. 1978
Report No.: NTIS.HCP/T2455-15/1

0678 167 Book, Combustion

Demonstration program for coal oil mixture combustion in an electric utility boiler category III A, 1977 Annual report

United-States Department of Energy, Washington, D.C., June 1978
Report No.: NTIS.HCP/T2564-01

0678 168 Book, Combustion

MHD ETF program final report. Volume 2A - Parts 1 and 2, Reference design description. January 1977 - March 1978
General Electric Company, Philadelphia, Pennsylvania
United-States Department of Energy, Washington, D.C., March 1978
Report No.: NTIS.FE-2613-6

0678 169 Book, Combustion

MHD ETF program final report. Volume 3, Program implementation, January 1977 - March 1978
General Electric Company, Philadelphia, Pennsylvania
United-States Department of Energy, Washington, D.C., March 1978
Report No.: NTIS.FE-2613-6

0678 170 Report, Combustion

Development of combustion data to utilize low Btu gases as industrial process fuels. Project 8985 Special report No. 2, Kiln Burner
By Waibel, R.T. / Fleming, E.S. Institute of Gas Technology, Chicago, Illinois
United-States Department of Energy, Washington, D.C., Aug. 1978
Report No.: NTIS.FE-2489-27

0678 171 Report, Combustion

Effect of thermal barrier coatings on the performance of steam and water cooled gas turbine/steam turbine combined cycle systems
By Nainiger, J.J. Lewis Research Center, National Aeronautics and Space Administration, Cleveland, Ohio
United-States Department of Energy, Washington, D.C., Dec. 1978
Report No.: NTIS.DOE/NASA/2593-78/4

0678 172 Book, Combustion

Evaluation of a pressurized fluidized bed combustion (PFBC) combined cycle power plant conceptual design. Task 1 report. Commercial plant requirements definition
By Huber, D.A. Burns and Roe Industrial Services Corporation, Paramus, New-Jersey

United-States Department of Energy, Washington, D.C., Feb. 1978
Report No.: NTIS.FE-2371-25

0678 173 Book, Combustion

Fluidized bed combustion test of low quality fuels: Texas lignite and lignite refuse
By Mei, J.S. / Grimm, U. / Halow, J.S. Morgantown Energy Research Center, Morgantown, West-Virginia
United-States Department of Energy, Washington, D.C., April 1978
Report No.: NTIS.MERC/RI-78/3

0678 174 Article, Combustion

Aiming for high availability of coal fired utility and industrial steam generators
By Schwieger, B.
Power, Vol. 122, No. 11, Nov. 1978, p. S40,S41,S44-S49, Nov. 1978

0678 175 Book, Combustion

MHD ETF program final report. Volume 4E, Appendices A26 - A28. January 1977 - March 1978
General Electric Company, Philadelphia, Pennsylvania
United-States Department of Energy, Washington, D.C., March 1978
Report No.: NTIS.FE-2613-6

0678 176 Book, Combustion

MHD ETF program final report. Volume 4D, Appendices A17 - A25. January 1977 - March 1978
General Electric Company, Philadelphia, Pennsylvania
United-States Department of Energy, Washington, D.C., March 1978
Report No.: NTIS.FE-2613-6

0678 177 Report, Combustion

Operation and maintenance of DOE/PETC two stage MHD pressurized coal combustor. Annual activity report, July 1977 - July 1978
General Electric Company, Bruceton, Pennsylvania
United-States Department of Energy, Washington, D.C., Aug. 1978
Report No.: NTIS.COO-4049-1

0678 178 Report, Combustion

Development of combustion data to utilize low Btu gases as industrial process fuels. Project 8985 Special report No. 3., Nozzle mix burner
By Waibel, R.T. / Fleming, E.S. Institute of Gas Technology, Chicago, Illinois
United-States Department of Energy, Washington, D.C., Aug. 1978
Report No.: NTIS.FE-2489-31

0678 179 Report, Combustion

Development of combustion data to utilize low Btu gases as industrial process fuels. Project 61004 Special report No. 5., Flat flame burner
By Waibel, R.T. / Fleming, E.S. Institute of Gas Technology, Chicago, Illinois
United-States Department of Energy, Washington, D.C., Dec. 1978
Report No.: NTIS.FE-2489-36

0678 180 Article, Combustion

Fluid bed combustion systems
By Pritchard, A.B. / Caplin, P.B.
Energy World, No. 51, Sept. 1978, p. 16-18, Sept. 1978

0678 181 Article, Combustion

Improved electrostatic precipitator performance by use of fly ash conditioning agents
By Brown, T.D. / Lee, G.K. / Reeve, J. / Sekhar, N.
J Inst Fuel, Vol. 51, No. 409, Dec. 1978, p. 195-198, Dec. 1978

0678 182 Article, Combustion

Research aspects of the Grimethorpe PFBC facility
By Hoy, H.R.
VDI-BER, Vol. 322, p. 89-96, 1978

0678 183 Article, Combustion

FBC for industrial applications
By Gibson, J. / Highley, J.
VDI-BER, Vol. 322, p. 17-28, 1978

0678 184 Article, Combustion, Mining

Pyrolysis of coals during their spontaneous combustion in an open cast mine
By Iskhakov, K.A. / Chernysh, A.V.
Solid Fuel Chem, Vol. 12, No. 1, p. 34-35, 1978

0678 185 Book, Combustion

Open cycle magnetohydrodynamic electrical power generation
By Petrick, M. / Shumyatsky, B.Y. Argonne National Laboratory, Argonne, Illinois

United-States Department of Energy, Washington, D.C., 1978
Report No.: NTIS.DOE-TR-119

0678 186 Book, Combustion

Report on the MHD performance demonstration experiment for the period October 1976 to September 1977
By Farrison, G.W. / Henderson, H.L. / Shmidt, H.J. / Seiber, B.L. / Whitehead, H.L. Arnold Engineering Development Center, Arnold Air Force Station, Tennessee
United-States Department of Energy, Washington, D.C., March 1978
Report No.: NTIS.FE-1542-35

0678 187 Book, Combustion

CFCC development program commercial plant reliability and maintainability evaluation (task 1.4)
General Electric Company, Schenectady, New-York
United-States Department of Energy, Washington, D.C., Oct. 1978
Report No.: NTIS.FE-2357-30

0678 188 Book, Combustion, Gasification

Fluidized bed flow equations
By Fanucci, J.B. / Ness, N. West-Virginia University, Morgantown, West-Virginia
United-States Department of Energy, Washington, D.C., July 1978
Report No.: NTIS.METC/Cr-78/10

0678 189 Report, Combustion

Support studies in fluidized bed combustion, Annual Report July 1977 - Sept. 1978
By Johnson, I. / Vogel, G.H. / Lee, S.H. / Moulton, D.S. / Nunes, F.F. / Shearer, J.A. / Smith, G.W. / Smyk, E.B. / Snyder, R.B. Argonne National Laboratory, Argonne, Illinois
United-States Department of Energy, Washington, D.C., Sept. 1978
Report No.: NTIS.ANL/CEN/FE-78-10

0678 190 Book, Combustion

Study of the Mechanism of the Hydrogen sulfide/dolomite reaction, Annual report, July 1977 - June 1978
By Huang, C.S. / Li, K. / Rogan, F.H. / Yen, J.H. Carnegie-Mellon University, Pittsburgh, Pennsylvania
United-States Department of Energy, Washington, D.C., July 1978
Report No.: NTIS.FE-2408-8

0678 191 Book, Combustion

MHD ETF Program final report, Volume IIB - Parts 3,4 and 5, Reference design description
General Electric Company, Philadelphia, Pennsylvania
United-States Department of Energy, Washington, D.C., March 1978

Report No.: NTIS.FE-2613-6

0678 192 Book, Combustion, Energy Policy

MHD ETF design criteria
Westinghouse Electric Corporation, Pittsburgh, Pennsylvania
United-States Department of Energy, Washington, D.C., April 1978
Report No.: NTIS.FE-2363-1

0678 193 Book, Combustion

MHD ETF conceptual design - volume IV - appendixes
Westinghouse Electric Corporation, Pittsburgh, Pennsylvania
United-States Department of Energy, Washington, D.C., April 1978
Report No.: NTIS.FE-2363-2

0678 194 Book, Combustion

MDH ETF conceptual design volume II - selection, scaling and preliminary test plan
Westinghouse Electric Corporation, Pittsburgh, Pennsylvania
United-States Department of Energy, Washington, D.C., April 1978
Report No.: NTIS.FE-2363-2

0678 195 Book, Combustion

MHD ETF conceptual design volume V addendum
Westinghouse Electric Corporation, Pittsburgh, Pennsylvania
United-States Department of Energy, Washington, D.C., April 1978
Report No.: NTIS.FE-2363-2

0678 196 Book, Combustion

Testing, identification, and evaluation of commercial and advanced experimental materials and coatings under design conditions simulating fuel power cycle combinations, Final report for the period June 1976 - Nov. 1977
By Bolarski, A.A. / Carlton, H.E. / Hall, A.M. / Krause, H.H. / Luce, R.G. / Stickford, G.H. / Vaughan, D.A. / Wright, G.
Battelle Columbus Laboratories, Columbus, Ohio
United-States Department of Energy, Washington, D.C., Dec. 1978
Report No.: NTIS.FE-2325-19

0678 197 Book, Combustion

Current and advanced NO//x control technology for coal fired industrial boilers
Argonne National Laboratory, Argonne, Illinois
United-States Department of Energy, Washington, D.C., Dec. 1978
Report No.: NTIS.ANL/ECT-4

0678 198 Book, Combustion

CFCC development program commercial plant stacked combustor/steam generator design evaluation
General Electric Company, Schenectady, New-York
United-States Department of Energy, Washington, D.C., June 1978
Report No.: NTIS.FE-2357-32

0678 199 Book, Combustion, Transportation

Environmental Development plan underground coal conversion program
Division of Environmental and Socioeconomic Programs, Washington, District-of-Columbia
United-States Department of Energy, Washington, D.C., March 1978
Report No.: NTIS.DOE/EDP-0011

0678 200 Book, Combustion

Evaluation of on line light scattering optical particle analyzers for measurements at high temperature and pressure
By Jonke, A.A. / Montagna, J.C. / Smith, G.W. / Teats, F.G. / Vogel, G.J. Argonne National Laboratory, Argonne, Illinois
United-States Department of Energy, Washington, D.C., Feb. 1978
Report No.: NTIS.ANL/CEN/FE-77-7

0678 201 Book, Combustion, Properties

Feasibility of spraying and feeding fully plasticized coal
By Mistry, D.K. / Sakhuja, A. Ingersoll-Rand Research, Inc., Princeton, New-Jersey
United-States Department of Energy, Washington, D.C., July 1978
Report No.: NTIS.FE-1794-38

0678 202 Book, Combustion

Proceedings of a workshop on fine particulate emissions from fluidized bed and conventional combustion

United-States Department of Energy, Washington, D.C., Aug. 1978
Report No.: NTIS.CONF-7810153

0678 203 Book, Combustion

Engineer, design, construct, test and evaluate a pressurized fluidized bed pilot plant using high sulfur coal for production of electric power, Phase 1, Preliminary engineering, Technology support test report, Commercial fluidized long term erosion/corrosion test in a limestone kiln
Curtiss-Wright Corporation, Wood-Ridge, New-Jersey
United-States Department of Energy, Washington, D.C., Aug. 1978
Report No.: NTIS.FE-1726-35A

0678 204 Book, Combustion

Fluidized bed combustion test of low quality fuels, 1. Anthracite refuse
Morgantown Energy Research Center, Morgantown, West-Virginia
United-States Department of Energy, Washington, D.C., March 1978
Report No.: NTIS.MERC/RI-78-1

0678 205 Book, Combustion, Beneficiation

CFCC development program - materials evaluation and specifications for commercial plant hot gas clean up
General Electric Company, Schenectady, New-York
United-States Department of Energy, Washington, D.C., March 1978
Report No.: NTIS.FE-2357-38

0678 206 Report, Combustion

Development of efficient and reliable coal fired power plants for the future
By McGowin, C.R. / Yeager, K.E. Electric Power Research Institute, Palo-Alto, California
Fourth International Conference on Coal Research, Vancouver, British-Columbia, Oct. 1978

0678 207 Article, Combustion

Combustion of ashy aqueous coal suspensions
By Isaev, V.V. / Delyagin, G.N.
Solid Fuel Chem, Vol. 12, No. 1, p. 121-124, 1978

0678 208 Article, Combustion

Combustion of porous particles
By Golovin, A.M. / Pesochin, V.R.
Combust Explos Shock Waves, Vol. 14, No. 1, Jan. - Feb. 1978, p. 7-13, Feb. 1978

0678 209 Book, Combustion

MHD ETF program final report. Volume 4A, Appendices A01 - A03. January 1977 - March 1978
General Electric Company, Philadelphia, Pennsylvania
United-States Department of Energy, Washington, D.C., March 1978
Report No.: NTIS.FE-2613-6

0678 210 Book, Combustion

CFCC development program. Annual progress report for July 1976 - June 1977

General Electric Company, Schenectady, New-York
United-States Department of Energy, Washington, D.C., Sept. 1978
Report No.: NTIS.FE-2357-24

0678 211 Book, Combustion, Beneficiation, Environment

Control technology for fine particulate emissions
By Buonicore, A.J. / Reynolds, J.P. / Theodore, L. Manhattan College, The Bronx, New-York
United-States Department of Energy, Washington, D.C., Oct. 1978
Report No.: NTIS.ANL/ECT-5

0678 212 Article, Combustion

Coal firing - Control and operational considerations
By Gelineau, F.D. / Dole, J.D.
ISA Trans., Vol. 17, No. 3, p. 53-62, 1978

0678 213 Article, Combustion

Experiments in coal devolatilization and combustion
By Lyman, F.A. Syracuse University, Syracuse, New-York
Prog. Astronaut. Aeronaut., Vol. 63, Iss. Exp. Diagn. Combust. Solids, p. 297-337, 1978

0678 214 Book, Combustion

Development of combustion data to utilize low btu gases as industrial process fuels: special report no. 4. High forward Momentum burner
By Waibel, R.T. / Fleming, E.S. Institute of Gas Technology, Chicago, Illinois
United-States Department of Energy, Washington, D.C., Nov. 1978
Report No.: NTIS.FE-2489-33

0678 215 Article, Combustion

The measurement of the sulfuric acid and sulfate content of particulate matter resulting from the combustion of coal and oil
By Homolya, J.B. / Fortune, C.R. United-States Environmental Protection Agency, Research-Triangle-Park, North-Carolina
Atmos. Environ., Vol. 12, Iss. 12, p. 2511-2514, July 1978

0678 216 Article, Combustion

Chemical enhancement of electrostatic precipitator efficiency
By Bennett, R.P. / Kober, A.E.
Combustion, Vol. 50, No. 4, p. 27-29, Oct. 1978

0678 217 Article, Combustion

Enhancement of sorbent utilization in fluidized bed combustion
By Yang, R.T. Brookhaven National Laboratory, Upton, New-York
Fuel, Vol. 57, No. 11, p. 709-711, Nov. 1978

0678 218 Article, Combustion, Gasification

Electrical induction heating of solid fossil fuels in situ - some estimates
By Fisher, S.T. F.T. Fisher's Sons Ltd., Montreal, Canada
Speculations Sci. Technol., Vol 1, Iss. 5, p. 441-451, Aug. 1978

0678 219 Article, Combustion

Development and operating experience with inerting systems on coal pulverizers and bunkers
By Fisher, J.E. Public Service of Indiana, Plainsfield, Indiana
Proc. Am. Power Conf., Vol. 40, p. 865-872, 1978

0678 220 Book, Combustion

Testing and evaluation of MHD materials and substructures. Annual technical progress report for July 1977 - June 1978
Mississippi-State University, Mississippi-State, Mississippi
United-States Department of Energy, Washington, D.C., July 1978
Report No.: NTIS.FE-2246-8

0678 221 Article, Combustion

Fluidized bed boiler can accept many fuels

Chem Eng. (New York), Vol. 85, No. 25, p. 91-92, Nov. 1978

0678 222 Report, Combustion

Procedures for cost analyses of coal oil mixture combustion projects
Mitre Corporation, Washington, District-of-Columbia
United-States Department of Energy, Washington, D.C., April 1978
Report No.: NTIS.HCP/T2453-01

0678 223 Article, Combustion

Organic emissions from combustion of combination coal/refuse to produce electricity
By Vick, R.D. / Junk, G.A. / Avery, M.J. / Richard, J.J. / Svec, H.J. Iowa State University, Ames, Iowa
Chemosphere, Vol. 7, Iss. 11, p. 893-902, 1978

0678 224 Article, Combustion

Instrumentation for oxygen/opacity coal combustion control
By Downey, R.E. Delco Remy Division of General Motors Corporation, Anderson, Indiana
Adv. Instrum., Vol. 33, Iss. 1, p. 41-46, 1978

0678 225 Patent, Combustion

Inhibiting spontaneous combustion of coal char
By Smith, R.H. Atlantic Richfield Company, Los-Angeles, California
Assignees: Atlantic Richfield Company, 4170456, Oct. 1979, Patent: United-States, Appl. 962816, Nov. 1978
Report No.: p. 4170456

0678 226 Article, Combustion

Developing regenerable SO//2 sorbents for fluidized bed coal combustion using thermogravimetric analysis
By Ruth, L.A. / Varga, G.M. Exxon Research and Engineering Company, Linden, New-Jersey
Thermochim. Acta, Vol. 26, Iss. 1-3, p. 241-255, 1978

0678 227 Article, Combustion

Use of oil shale for control of sulfur dioxide emissions from the combustion of coal
By Fuchs, L.H. / Nielsen, E.L. / Hubble, B.R. Argonne National Laboratory, Argonne, Illinois
Thermochim. Acta, Vol. 26, Iss. 1-3, p. 229-239, 1978

0678 228 Article, Combustion

The combustion of carbon
By Mulcahy, M.F.R. CSIRO, Division of Process Technology, North-Ryde, Australia
Spec. Publ. - Chem. Soc., Vol. 32, Iss. Oxygen Met. Gaseous Fuel Ind., p. 175-208, 1978

0678 229 Article, Combustion

Latest technology for coal fired boilers
By Fujita, H. / Kotaka, T. Babcock-Hitachi, K.K., Japan
Hitachi Rev, Vol. 27, No. 7, p. 353-358, Dec. 1978

0678 230 Article, Combustion

MHD slag electrical conductivity studies
By Pollina, R. / Larsen, R. Montana State University, Bozeman, Montana
Eng. Aspects Magnetohydrodyn., Vol. 17, p. C.6.1.-C.6.6., 1978

0678 231 Article, Combustion

Nucleation and evolution of slag droplets in coal combustion
By Im, K.H. / Chung, P.M. Argonne National Laboratory, Argonne, Illinois
Eng. Aspects Magnetohydrodyn., Vol. 17, p. C.5.1.-C.5.7., 1978

0678 232 Article, Combustion

Computer modeling of the effects of coal ash chemistry on the performance of MHD generators
By Youseflan, V. / Wormhoudt, J. / Kolb, C.E. Aerodyne Research Inc., Bedford, Massachusetts
Eng. Aspects Magnetohydrodyn., Vol. 17, p. C.4.1.-C.4.6., 1978

0678 233 Article, Combustion

Mechanistic modeling of pulverized coal combustion
By Stickler, D.B. / Ubhayakar, S.K. Avco Everett Research Laboratory, Inc., Everett, Massachusetts
Eng. Aspects Magnetohydrodyn., Vol. 17, p. A.1.1-A.1.7., 1978

0678 234 Article, Combustion

Coal combustor technology development
By Stickler, D.B. / Becker, F.E. / Lothrop, J.W. / Desaro, R. Avco Everett Research Laboratory, Inc., Everett, Massachusetts
Eng. Aspects Magnetohydrodyn., Vol. 17, p. A.2.1.-A.2.8., 1978

0678 235 Article, Combustion

Cyclone and fluidized bed combustion concepts for coal fired open cycle MHD
By Omori, S. / Hnat, J.G. / Bazan, J. / Biswas, B. General Electric Company, Philadelphia, Pennsylvania
Eng. Aspects Magnetohydrodyn., Vol. 17, p. A.6.1.-A.6.8., 1978

0678 236 Article, Combustion, Properties

Electrochemical corrosion of MHD electrodes in slags
By Cadoff, L.H. / Rossing, B.R. / Smith, H.D. Westinghouse Research and Development Center, Pittsburgh, Pennsylvania
Eng. Aspects Magnetohydrodyn., Vol. 17, p. D.4.1.-D.4.12., 1978

0678 237 Article, Combustion

Electrode development for coal fired MHD generators
By Demirjian, A. / Petty, S.W. / Solbes, A. Avco Everett Research Laboratory, Inc., Everett, Massachusetts
Eng. Aspects Magnetohydrodyn., Vol. 17, p. D.1.1.-D.1.6., 1978

0678 238 Article, Combustion

Insulator performance and anode recession rate in a direct coal fired cold copper diagonal conducting wall MHD generator
By Beaton, M.S. / Scott, M.H. / Wu, Y.C. / Dicks, J.B. University of Tennessee Space Institute, Tullahoma, Tennessee
Eng. Aspects Magnetohydrodyn., Vol. 17, p. D.2.1.-D.2.6., 1978

0678 239 Book, Combustion

Engineering test facility conceptual design Final Report, Part 2
Avco Everett Research Laboratory, Inc., Everett, Massachusetts
United-States Department of Energy, Washington, D.C. June 1978 p. 533, 989, June 1978

0678 240 German, English Article, Combustion

Power generation costs in coal fired and in nuclear power plants
By Weible, H. University of Stuttgart, Stuttgart, Germany
Kerntechnik, Vol. 20, No. 11, 1978, p. 504-511, Nov. 1978

0678 241 French Article, Combustion

Preliminary research into the deep underground gasification of coal, outlook and problems
By Pottier, M. / Chaumet, P. / Lechevin, L. Gas De France, Paris, France
Rev. Inst. Fr. Pet, Vol. 33, No. 5, p. 729-746, Sept. 1978

0678 242 Flemish Article, Combustion

Combined cycles for electric power and heat generation
By Timmermans, A.R. ACEC, Charleroi, Belgium
Revue M., Mecanique, Vol. 24, No. 4, p. 251-259, Dec. 1978

0678 243 Article, Combustion, Environment

Convenient index for the assessment of coal cleaning processes
By Swanson, A.R. / Firth, B.A. / Nicol, S.K. Broken Hill Proprietary Company Limited, NSW, Australia
Proc. Australas, Inst. Min. Metall., No. 268, Dec. 1978, p. 57-61, Dec. 1978

0678 244 Article, Combustion

BTX by coal pyrolysis in hydrogen
By Finn, M.J. / Fynes, G. / Ladner, W.R. / Newman, J.O. National Coal Board, London, United-Kingdom
Comm. Eur. Communities, p. 91-107, 1978

0678 245 Article, Combustion

Role of sorption in the sintering of carbonaceous materials
By Lapina, N.A. / Syskov, K.I. / Ostrovskii, V.S. / Starichenko, N.S.
Solid Fuel Chem, Vol. 12, No. 3, p. 113-117, May 1978

0678 246 Article, Combustion

Rapid pyrolysis of coals in a hydrogen plasma
By Kulczycka, J. Central Mining Institute, Katowice, Poland
Solid Fuel Chem, Vol. 12, No. 3, p. 89-95, May 1978

0678 247 Article, Combustion, Beneficiation

Extraction of molybdenum from the fly ash produced in the combustion of coal hydrogenation sludge
By Zelel, L.A. / Krasnobaeva, N.V. / Ratynskii, V.M. / Shpirt, M.Y.
Solid Fuel Chem, Vol. 12, No. 5, p. 111-114, 1978

0678 248 Book, Combustion, Gasification

Study of electric plant applications for low Btu gasification of coal for electric power generation. Final report, R and D, Task 11 (phase 1), July 1974 - August 1978
By Hargrove, M.J. / Jack, S.T. / Liljedahl, G.N. / Moffat, B.K. Power Systems Group, Windsor, Connecticut
United-States Department of Energy, 137p., Aug. 1978
Report No.: FE-1545-59

0678 249 Article, Combustion, Gasification, Liquefaction

Coal conversion reaction engineering
By Wen, C.Y. / Tone, S. West-Virginia University, Morgantown, West-Virginia
American Chemical Society, p. 56-109, 1978

0678 250 Book, Combustion

Conceptual design of a fluidized bed steam generator
Foster Wheeler Limited, St.-Catherines, Ontario
Energy, Mines and Resources Canada, 123p., Nov. 1978
Report No.: Contract OSQ 77-00241

0678 251 Article, Combustion

Internal boiling and superheating in vaporizing multicomponent droplets
By Law, C.K. Northwestern University, Evanston, Illinois
AIChE J., Vol. 24, No. 4, p. 626-632, July 1978

0678 253 Book, Combustion

Conceptual design of a plant for fluidized bed boiler. Phase II

Energy, Mines and Resources, Canada, 159 p., 1978
Report No.: OSQ78-00168

0678 254 Article, Combustion, Environment

Evaluation of coal fired fluid bed combined cycle power plant
By Giramonti, A.J. / Smith, J.W. / Costello, R.M. / Huber, D.A. / Horgan, J.J. United Technologies Corporation, Farmington, Connecticut
Prepr Pap-Am Chem Soc, Div Fuel Chem, Vol. 23, No. 1, p. 172-187, 1978

0678 255 Book, Combustion

Simulation of fluidized bed coal combustors - dissertation
By Rajan, R.R. West-Virginia University, Morgantown, West-Virginia
West-Virginia University, Morgantown, West-Virginia, 218p., 1978

0678 256 Book, Combustion, Mining

The kinetics of ignition and particle burnout of coal dust suspensions under rapid heating conditions - dissertation
By Seeker, W.R. Kansas State University, Manhattan, Kansas
Kansas State University, Manhattan, Kansas, 208p., 1978

0678 257 Conference proceedings, Combustion

Fuel and ash characterization and its effect on the design of industrial boilers
By Vecci, S.J. / Wagoner, C.L. / Olson, G.J. Babcock & Wilcox Company, Alliance, Ohio
The American Power Conference, Chicago, Illinois, April 24/26, 1978, 18p., 1978
Report No.: B&W paper No. BR 1117

0678 258 Article, Combustion, Beneficiation

The pulverization and combustion of solvent refined coal - laboratory and pilot studies
By Carr, R.C. / Downs, W. / Wagoner, C.L. Electric Power Research Institute, Palo-Alto, California
American Chemical Society, Fuels Division, March 1978, 9p., 1978
Report No.: B&W paper No. RDTPA 78-19

0678 259 Article, Combustion, Environment

Assessment of current and advanced NOx control technology for coal fired utility boilers

By Thompson, R.E. / Sonnichson, T.W. KVB, Inc., Tustin, California
Prepr Pap, Am Chem Soc, Div Fuel Chem, Vol. 23, No. 1, p. 188-195, 1978

0678 260 Article, Combustion

Criteria for selection of coal additives
By Libutti, B.L. / Pall, R.L. Drew Chemical Corporation, Bonton, New-Jersey
Prepr Pap, Am Chem Soc, Div Fuel Chem, Vol. 23, No. 1, p. 206-213, 1978

0678 261 Conference proceedings, Combustion

MHD electrical power generation: program status report
By Jackson, W.D. United-States Department of Energy, Washington, District-of-Columbia
Scientific Problems of Coal Utilization, Proceedings of a Conference at West-Virginia University, Morgantown, West-Virginia, May 23/25, 1977, p. 113-133, 1978

0678 262 Conference proceedings, Combustion, Liquefaction, Gasification

Materials in coal utilization: mechanical and electrical properties
By Shewmon, P.G. Ohio State University, Columbus, Ohio
Scientific Problems of Coal Utilization, Proceedings of a Conference at West-Virginia University, Morgantown, West-Virginia, May 23/25, 1977, p. 134-145, 1978

0678 263 Conference proceedings, Combustion, Mining

Scientific and technical problems in erosive wear
By Suh, N.P. Massachusetts Institute of Technology, Cambridge, Massachusetts
Scientific Problems of Coal Utilization, Proceedings of a Conference at West-Virginia University, Morgantown, West-Virginia, May 23/25, 1977, p. 168-180, 1978

0678 264 Report, Combustion

Engineer, design, construct, test and evaluate a pressurized fluidized bed pilot plant using high sulfur coal for production of electric power. Phase I - Preliminary Engineering, Technology support test report commercial fluidized long term erosion/corrosion testing in a limestone kiln
Curtiss-Wright Corporation, Wood-Ridge, New-Jersey
U.S. Department of Energy, 50p., Aug. 1978
Report No.: FE-1726-35A

0678 265 Report, Combustion

An analytical study of intake tuning for helical rotor expanders
By Margolis, D.L. Lawrence Livermore Laboratory, University of California, Livermore, California
Lawrence Livermore Laboratory, Livermore, California, 11p., 1978
Report No.: UCRL-52449

0678 266 Report, Combustion

Studies for the stabilization of coal oil slurries (COM) Technical Progress Report for August November, 1978
By Botsaris, G.D. / Glazman, Y.M. / Naar, R.Z. / Viola, M.A. Tufts University, Medford, Massachusetts
United-States Department of Energy, 30p., Nov. 1978
Report No.: DOE/ET/10320-1

0678 267 Report, Combustion, Energy Policy, Transportation, Environment

Steam Coal - Prospects to 2000

International Energy Agency, 157p., 1978

0679 0 Report, Combustion

Trace elements from coal combustion - atmospheric emissions
By Lim, M.Y.
IEA Coal Research, London, England, May 1979

0679 1 Report, Combustion

Airfoil cooling hole plugging by combustion gas impurities of the type found in coal derived fuels
By Deadmore, D.L. / Lowell, C.E. Lewis Research Center, National Aeronautics and Space Administration, Cleveland, Ohio
United-States Department of Energy, Washington, D.C., Feb. 1979
Report No.: NTIS.DOE/NASA/2593-79/1

0679 2 Article, Combustion

Relative contributions of volatile nitrogen and char nitrogen to NO//x emissions from pulverized coal flames
By Pershing, D.W. / Wendt, J.O.
Ind. Eng. Chem. Process Des. Dev., Vol. 18, Iss. 1, p. 60-7, 1979

0679 3 Book, Combustion

Parametric study of the performance of a CDIF 1 B coal fired MHD generator
By Ahluwalia, R.K. / Geyer, H.K. / Doss, E.D. Argonne National Laboratory, Argonne, Illinois
United-States Department of Energy, Washington, D.C., Feb. 1979
Report No.: NTIS.ANL/MHD-79-3

0679 4 Report, Combustion, Gasification

MHD performance calculations with oxygen enrichment

By Pian, C.C.P. / Staiger, P.J. Lewis Research Center, National Aeronautics and Space Administration, Cleveland, Ohio
United-States Department of Energy, Washington, D.C., June 1979
Report No.: NTIS.DOE/NASA/2674-79/4

0679 5 Report, Combustion, Properties

Performance optimization of an MHD generator with physical constraints
By Pian, C.C.P. / Seikel, G.R. / Smith, J.M. Lewis Research Center, National Aeronautics and Space Administration, Cleveland, Ohio
United-States Department of Energy, Washington, D.C., Aug. 1979
Report No.: NTIS.DOE/NASA/2674-79/5

0679 6 Book, Combustion

Analytical studies of oxides of nitrogen decomposition in the radiant boiler of an open cycle MHD power plant
By Sistino, J.J. Argonne National Laboratory, Argonne, Illinois
United-States Department of Energy, Washington, D.C., April 1979
Report No.: NTIS.ANL/MHD-79-7

0679 7 Book, Combustion, Transportation

Rocky Mountain coal for southern California's coal fired electric power generation
By Anderson, O.L. Los-Alamos Scientific Laboratory, University of California, Los-Alamos, New-Mexico
United-States Department of Energy, Washington, D.C., Feb. 1979
Report No.: NTIS.LA-6915-MS

0679 8 Report, Combustion

Coal oil mixture combustion progress report
By Krishna, C.R. / Butcher, T.A. / Spaulding, L.D. Brookhaven National Laboratory, Upton, New-York
United-States Department of Energy, Washington, D.C., March 1979
Report No.: NTIS.BNL-51021

0679 9 Report, Combustion

Technical support for open cycle MHD program
By Doss, E.D. Argonne National Laboratory, Argonne, Illinois
United-States Department of Energy, Washington, D.C., June 1979
Report No.: NTIS.ANL/MHD-79-4

0679 10 Book, Combustion

Evolution of a conceptual design for a coal fired fluidized bed combustion furnace for a MIUS closed cycle gas turbine
By Tudor, J.J. Oak-Ridge National Laboratory, Oak-Ridge, Tennessee
United-States Department of Housing and Urban Development, Washington, D.C., Jan. 1979

Report No.: NTIS.ORNL/HUD/MIUS-36

0679 11 Article, Combustion

Combustion characteristics of droplets of coal/oil and coal/oil/water mixtures
By Law, C.K. / Law, H.K. / Lee, C.H.
Energy (UK), Vol. 4, No. 2, p. 329-339, 1979

0679 12 Report, Combustion

A user's manual for the magnetohydrodynamic generator channel code, MHDCHN
By Russo, A.J. Sandia Laboratories, Albuquerque, New-Mexico
United-States Department of Energy, Washington, D.C., Jan. 1979
Report No.: NTIS.SAND78-1260

0679 13 Article, Combustion

Building material from hot pressured fluidized bed ashes
By Gartner, E.M.
Trans J Brit Ceram Soc, Vol. 78, No. 3, p. 48-52, 1979

0679 14 Article, Combustion

Combustion of coal particles in wall burning swirl combustors
By Chung, P.M. / Smith, R.S.
Energy (Oxford), Vol. 4, No. 2, p. 315-327, 1979

0679 15 Article, Combustion

Combustion of single coal particles in a jet
By Ragland, K.W. / Weiss, C.A.
Energy (Oxford), Vol. 4, No. 2, p. 341-348, 1979

0679 16 Report, Combustion

Economics of retrofitting industrial boilers from oil to coal oil mixture firing
By George, T.J. Process Evaluation Office, Morgantown, West-Virginia
United-States Department of Energy, Washington, D.C., Feb. 1979
Report No.: NTIS.FE/EES-79/4

0679 17 Article, Combustion

Experiences and results of fluidized bed combustion plant at Renfrew

By Beacham, B. / Marshall, A.R.
J Inst Energy, Vol. 52, No. 411, p. 59-64, 1979

0679 18 Article, Combustion

Coal fired industrial boilers for the 1980's
By Pollock, W.H.
Natl Eng, Vol. 83, No. 8, p. 3-7, 1979

0679 19 Book, Combustion

Conversion to coal and coal oil firing
By Morrison, G.F.
IEA Coal Research, London, England, Dec. 1979
Report No.: IEA.ICTIS/TR-07

0679 20 Article, Combustion

Converting to coal firing
By Morris, K. / Barynin, J.
Pulp Pap Can, Vol. 80, No. 7, July 1979, p. 44-46, 48, 51, July 1979

0679 21 Article, Combustion

Removal of sulfur during the combustion of coal by adding limestone
By Lallai, A. / Mura, G. / Viola, A. / Gioia, F.
Int Chem Eng, Vol. 19, No. 3, July 1979, p. 445-453, July 1979

0679 22 Book, Combustion, Gasification

Membrane oxygen enrichment cost and application evaluation
By Fischer, J. / Burnett, L.J. Argonne National Laboratory, Argonne, Illinois
United-States Department of Energy, Washington, D.C., March 1979
Report No.: NTIS.ANL-78-108

0679 23 Article, Combustion

A regenerative process for fluidized bed combustion of coal with lime additives
By Yang, R.T. / Shen, M.S. Brookhaven National Laboratory, Upton, New-York
Ind Eng Chem Process Des Dev, Vol. 18, No. 2, p. 312-316, 1979

0679 24 Article, Combustion

Modeling of shallow fluidized bed combustion of coal particles
By Fan, L.T. / Tojo, K. / Chang, C.C.
Ind Eng Chem Process Des Dev, Vol. 18, No. 2, p. 333-337, 1979

0679 25 Book, Combustion

Fluidized bed combustion of high sulfur coals
By Mei, J.S. / Halow, J.S. / Grimm, U. / Rice, R.L. Morgantown Energy Technology Center, Morgantown, West-Virginia
United-States Department of Energy, Washington, D.C., April 1979
Report No.: NTIS.METC/RI-79/4

0679 26 Book, Combustion, Environment

Engineer, design, construct, test and evaluate a pressurized fluidized bed pilot plant using high sulfur coal for production of electric power. Phase 1: Preliminary engineering, Task 4: Environmental Assessment
Curtiss-Wright Corporation, Wood-Ridge, New-Jersey
United-States Department of Energy, Washington, D.C., 1979
Report No.: NTIS.FE-1726-31A

0679 27 Report, Combustion

Gas turbine critical research and advanced technology support project: FY 1978 annual report
By Clark, J.S. / Lowell, C.E. / Niedzwiecki, R.W. / Nainiger, J.J. Lewis Research Center, National Aeronautics and Space Administration, Cleveland, Ohio
United-States Department of Energy, Washington, D.C., June 1979
Report No.: NTIS.DOE/NASA/2593-79/6

0679 28 Book, Combustion

Final report on the U O2 phase III Proof test series
Westinghouse Electric Corporation, Pittsburgh, Pennsylvania
United-States Department of Energy, Washington, D.C., Jan. 1979
Report No.: NTIS.FE-2248-21

0679 29 Book, Combustion

W.O. 3377 02 Conceptual design of an AFBC electric power generating plant. Final report. Volume II - Program Description
By Cosgrove, E.J. Burns and Roe, Inc., Woodbury, New-York
United-States Department of Energy, Washington, D.C., Feb. 1979
Report No.: NTIS.FE-2455-27

0679 30 Book, Combustion

Fluidized bed combustion industrial application demonstration projects. Battelle's Multisolid Fluidized Bed Combustion Process. End of phase final report October 1979

Battelle Columbus Laboratories, Columbus, Ohio
United-States Department of Energy, Washington, D.C., Oct. 1979
Report No.: NTIS.DOE/FE/2472-42

0679 31 Report, Combustion

Dry cleaning coal in a fluidized bed medium - Report of Investigations
By Weintraub, M. / Deurbrouck, A.W. / Thomas, R.H. United-States Department of Energy, Pittsburgh, Pennsylvania
United-States Department of Energy, Washington, D.C., Jan. 1979
Report No.: NTIS.RI-PMTC-4(79)

0679 32 Book, Combustion

Alkali emission during combustion of coals at the normal temperature range of PFBCs
By Lee, S.H. / Johnson, I. / Fischer, J. Argonne National Laboratory, Argonne, Illinois
United-States Department of Energy, Washington, D.C., June 1979
Report No.: NTIS.ANL/CEN/FE-79-10

0679 33 Book, Combustion

Report on the MHD performance demonstration experiment for the period October 1977 to September 1978
By Schmidt, H.J. / Starr, R.F. / Lineberry, J.T. / Whitehead, G.L. / Seiber, B.L. Arnold Engineering Development Center, Arnold Air Force Station, Tennessee
United-States Department of Energy, Washington, D.C., April 1979
Report No.: NTIS.CONS-2895-3

0679 34 Book, Combustion

MHD ETF 150 MW progressive facility reference concept
By Retallick, F.D. Westinghouse Electric Corporation, Pittsburgh, Pennsylvania
United-States Department of Energy, Washington, D.C., Aug. 1979
Report No.: NTIS.FE-2363-4

0679 35 Book, Combustion

U.S./U.S.S.R. cooperative program in open cycle MHD electrical power generation
Argonne National Laboratory, Argonne, Illinois
United-States Department of Energy, Washington, D.C., April 1979
Report No.: NTIS.ANL-IVTAN-JT2

0679 36 Book, Combustion

Combustion of Methanol Coal Slurries in the Hartmann Resonator, Final report, August 1977 - March 1979
By Kranc, S.C. University of South-Florida, Tampa, Florida
United-States Department of Energy, Washington, D.C., March 1979

Report No.: NTIS.FE-2744-T2

0679 37 Book, Combustion

Development of combustion data to utilize low Btu gases as industrial process fuels, Project 61004 Special report no. 7, Premix tunnel burner
By Waibel, R.T. / Fleming, E.S. Institute of Gas Technology, Chicago, Illinois
United-States Department of Energy, Washington, D.C., May 1979
Report No.: NTIS.FE-2489-41

0679 38 Book, Combustion

Evaluation of ceramic refractories for corrosion behavior by molten slag seed mixture of a coal fired open cycle MHD system
By Singh, R.N. / Kennedy, C.R. / Fousek, R.J. / Jones, D.J. / Kreis, S.W. / Maihiot, R.E. / Poeppel, R.B. Argonne National Laboratory, Argonne, Illinois
United-States Department of Energy, Washington, D.C., Aug. 1979
Report No.: NTIS.ANL/MHD-79-9

0679 39 Book, Combustion

The effect of CaCl//2 additive on the reaction of SO//2O//2 mixtures with carbonate rocks
By Johnson, I. / Shearer, J.A. / Turner, C.B. Argonne National Laboratory, Argonne, Illinois
United-States Department of Energy, Washington, D.C., July 1979
Report No.: NTIS.ANL/CEN/FE-79-7

0679 40 Book, Combustion

Development of combustion data to utilize low Btu gases as industrial process fuels, Project 61004 Special Report No. 8, Boiler Burner
By Fleming, E.S. / Waibel, R.T. Institute of Gas Technology, Chicago, Illinois
United-States Department of Energy, Washington, D.C., May 1979
Report No.: NTIS.FE-2489-45

0679 41 Book, Combustion

Conceptual design of an AFBC electric power generating plant, final report, Vol. III, Appendices
Burns and Roe, Inc., Woodbury, New-York
United-States Department of Energy, Washington, D.C., Feb. 1979
Report No.: NTIS.FE-2455-27

0679 42 Book, Combustion

Development of combustion data to utilize low Btu gases as industrial process fuels, Project 61004 Annual status report for Oct. 1977 - Sept. 1978
By Waibel, R.T. / Fleming, E.S. Institute of Gas Technology, Chicago, Illinois

United-States Department of Energy, Washington, D.C., Feb. 1979
Report No.: NTIS.FE-2489-37

0679 43 Book, Combustion

Materials for coal conversion and use, Vol. I
By Nangia, V.K. Engineering Societies Commission on Energy, Inc., Washington, District-of-Columbia
United-States Department of Energy, Washington, D.C., Feb. 1979
Report No.: NTIS.FE-2468-43

0679 44 Book, Combustion

PFB coal fired combined cycle development program - management plan update
Energy System Programs Department, Schenectady, New-York
United-States Department of Energy, Washington, D.C., Dec. 1979
Report No.: NTIS.FE-2357-43

0679 45 Book, Combustion

A comparison of atmospheric fluidized bed combustion conceptual designs for utility steam generation: Interim Report
Radian Corporation, McLean, Virginia
United-States Department of Energy, Washington, D.C., Feb. 1979
Report No.: NTIS.HCP/T-2314

0679 46 Book, Combustion

Advanced coal fueled combustor/heat exchanger technology study. Ffnal report for March 1977 - June 1978. Executive summary
By Kinney, C. Rockwell International, Canoga-Park, California
United-States Department of Energy, Washington, D.C., 1979
Report No.: NTIS.RI/RD-78-212

0679 47 Book, Combustion

Development of combustion data to utilize low Btu gases as industrial process fuels, Project 61004, Special Report No. 6, High excess air burner
By Fleming, E.S. / Waibel, R.T. Institute of Gas Technology, Chicago, Illinois
United-States Department of Energy, Washington, D.C., March 1979
Report No.: NTIS.FE-2489-40

0679 48 Book, Combustion

Summary of the research and development effort on open cycle coal fired gas turbines
By Lackey, M.E. Oak-Ridge National Laboratory, Oak-Ridge, Tennessee
United-States Department of Energy, Washington, D.C., Oct. 1979
Report No.: NTIS.ORNL/TM-6253

0679 49 Book, Combustion

Assessment of an atmospheric fluidized bed coal combustion gas turbine cogeneration system for industrial application
By Graves, R.L / Holcomb, R.S. / Tallackson, J.H. Oak-Ridge National Laboratory, Oak-Ridge, Tennessee
United-States Department of Energy, Washington, D.C., Oct. 1979
Report No.: NTIS.ORNL/TM-6626/VI

0679 50 Book, Combustion

Centrifugal fluidized combustion of coal
By Chen, J.C. / Levy, E.K. Lehigh University, Bethlehem, Pennsylvania
United-States Department of Energy, Washington, D.C., Jan. 1979
Report No.: NTIS.FE-2516-9

0679 51 Book, Combustion

Liquid metal MHD energy coversion status report March 1978 - September 1977
By Petrick, M. / Dunn, P.F. / Pierson, E.S. / Dauzvardis, P.V. / Pollack, I. Argonne National Laboratory, Argonne, Illinois
United-States Department of Energy, Washington, D.C., May 1979
Report No.: NTIS.ANL/MHD-78-5

0679 52 Book, Combustion

Interim Report on the performance of 400 megawatt and larger nuclear and coal fired generating units. Performance through 1976.

United-States Department of Energy, Washington, D.C., Nov. 1979
Report No.: NTIS.DOE/ERA-0007/2

0679 53 Book, Combustion

Advanced coal fueled combustor/heat exchanger technology study. Final report for March 1977 - June 1978
Rockwell International, Canoga-Park, California
United-States Department of Energy, Washington, D.C., 1979
Report No.: NTIS.RI/RD-78-212A

0679 54 Book, Combustion

W.O. 3377 02 Conceptual design of an AFBC electric power generating plant. Final report. Volume I - Executive summary
By Cosgrove, E.J. Burns and Roe, Inc., Woodbury, New-York
United-States Department of Energy, Washington, D.C., Feb. 1979
Report No.: NTIS.FE-2455-27

0679 55 Book, Combustion

Heat transfer performance of an air cooled tube in a fluidized bed furnace
By Holcomb, R.S. Oak-Ridge National Laboratory, Oak-Ridge, Tennessee
United-States Department of Energy, Washington, D.C., Feb. 1979
Report No.: NTIS.ORNL/HUD/MIUS-49

0679 56 Book, Combustion

Three clean fuels from coal. Technology and economics. Synthetic natural gas. Methanol. Medium Btu gas
By Kasem, A. Southern-California Edison Company, Rosemead, California
Marcel Dekker, Inc., New-York, New-York, 1979

0679 57 Book, Combustion

Advanced coal fueled combustor/heat exchanger technology study final report for March 1977 - June 1978
Rockwell International, Canoga-Park, California
United-States Department of Energy, Washington, D.C., June 1978
Report No.: NTIS.RI/RD-78-212B

0679 58 Article, Combustion

Experiences with coal/oil mixture firing of a utility boiler
By Jeffries, A.T. / Whalen, P.J. / Davies, F.W. New-Brunswick Electric Power Commission, Fredericton, New-Brunswick
Pulp & Paper Canada, Vol. 80, No. 10, p. 94-103, Oct. 1979

0679 59 Article, Combustion, Environment

Fluidized bed firing of coal for steam generation
By Adams, P.J. Foster Wheeler Limited, St.-Catherines, Ontario
CIM Bull., Vol. 72, No. 802, p. 88-93, Feb. 1979

0679 60 Article, Combustion

Role of fuel reactivity in fluidized bed combustion
By Leung, L.S. / Smith, I.W. CSIRO, Division of Process Technology, North-Ryde, Australia
Fuel, Vol. 58, Iss. 5, p. 354-360, May 1979

0679 61 Article, Combustion, Beneficiation

A study of primary sulfate emissions from a coal fired boiler with FGD
By Homolya, J.B. / Cheney, J.L. United-States Environmental Protection Agency, Cincinnati, Ohio
J. Air Pollut. Control Assoc., Vol. 29, Iss. 9, Sept. 1979, p. 1000-1004, Sept. 1979

0679 62 Article, Combustion

MHD coal power goes on the grid
By Sullivan, A.M.
Coal Age, Vol. 84, No. 9, p. 147-148, 151, Sept. 1979

0679 63 Article, Combustion

Energy: What about the waste?
By Goldman, M.I. NUS Corporation, Rockville, Maryland
Chem. Eng. Prog., Vol. 75, No. 11, p. 65-70, Nov. 1979

0679 64 Article, Combustion, Properties

Calcium silicates: A new class of highly regenerative sorbents for hot gas desulfurization
By Yang, R.T. / Shen, M.S. Brookhaven National Laboratory, Upton, New-York
AICHE Journal, Vol. 25, No. 5, p. 811-819, Sept. 1975

0679 65 Article, Combustion

Improved method of combustion control of coal fired boilers using flue gas carbon monoxide analysis
By Ormerod, W.G. / Read, A.W.
J. Inst. Energy, Vol. 52, No. 410, p. 23-26, March 1979

0679 66 Article, Combustion

Work by the NCB on the development of atmospheric and pressurized fluidized bed combustion
By Hoy-Obe, H.R. / Kaye, W.G. National Coal Board, Leatherhead, Surrey, United-Kingdom
J. Inst. Energy, Vol. 52, No. 411, p. 86-93, June 1979

0679 67 Article, Combustion

High temperature corrosion in fluidized bed combustors
By La-Nauze, R.D. / Minchener, A.J. / Rogers, E.A. / Stringer, J.
J. Inst. Energy, Vol. 52, No. 411, p. 79-85, June 1979

0679 68 Article, Combustion

Design your coal conveyor for long life and minimum maintenance
By Midkiff, L. CSIRO, Division of Process Technology, North-Ryde, Australia
Power, Vol. 123, No. 4, p. 92-94, April 1979

0679 69 Article, Combustion

Estimating capital and operating costs for industrial steam plants
By Coffin, B.D.
Power, Vol. 123, No. 4, p. 106-109, 111, April 1979

0679 70 Article, Combustion

Burning tomorrow's fuels
By Schwieger, R.G. .
Power, Vol. 123, No. 2, p. 1-24, Feb. 1979

0679 71 Article, Combustion

Combustion metamorphism in the Hat Creek area, British Columbia
By Church, B.N. / Matheson, A. / Hora, Z.D. British-Columbia Ministry of Energy, Mines and Petroleum Resources, Victoria, British-Columbia
Canadian J. Earth Sci., Vol. 16, Iss. 9, p. 1882-1887, 1979

0679 72 Article, Combustion

Entrained bed coal gasifiers handle double throughput
By Staege, H.
Chem. Eng. (New-York), Vol. 86, No. 19, p. 106-107, Sept. 1979

0679 73 Article, Combustion

Fluid bed gets the nod
By Berry, R.I.
Chem. Eng. (New-York), Vol. 86, No. 21, p. 60, 62, 64, Oct. 1979

0679 74 Article, Combustion

Commercial power plant design development for the coal fired combined cycle
By Peterson, J.R. / Lucke, V.H. United-States Energy Research and Development Administration, Washington, District-of-Columbia
Combustion, Vol. 50, No. 7, p. 29-36, Jan. 1979

0679 75 Article, Combustion

Dirty coal burns clean in fluidized bed
By Sullivan, A.M.
Coal Age, Vol. 84, No. 11, p. 88-93, Nov. 1979

0679 76 Article, Combustion

Pulverized coal firing with fluidization
By Remenyi, K. / Voros, L. Babcock & Wilcox Company, Alliance, Ohio
Int. Chem. Eng., Vol. 19, No. 2, p. 352-356, April 1979

0679 77 Article, Combustion, Environment

NO//x emissions controlled by design in pulverized coal burner boiler
By Barsin, J.A. Babcock & Wilcox Company, Alliance, Ohio
Power Eng. (Barrington, Ill.), Vol. 83, No. 8, p. 70-72, Aug. 1979

0679 78 Article, Combustion

Operative variables of a pre pilot plant for fluidized bed combustion
By Cammarota, A. / DiMuro, N. / Donsi, G. / Massimilla, L. / Russo, G. / Stecconi, P. Instituto di Chimica Industriale e Impianti Chemici, Napoli, Italy
Rivista del Combustibili, Vol. 33, No. 5, p. 149-156, May 1979

0679 79 Article, Combustion

Design of coal fired boilers
By Sur, G.N. Babcock & Wilcox Company, London, United-Kingdom
Rivista del Combustibili, Vol. 33, Iss. 7, p. 229-246, July 1979

0679 80 Article, Combustion

Potential of fluidized bed combustion for industrial steam raising in South Africa
By Naude, D.P. University of Cape-Town, Cape-Town, South-Africa
S. Afr. Mech. Eng., Vol. 29, No. 7, p. 243-250, July 1979

0679 81 Article, Combustion

How to eliminate fireside deposits in coal fired boilers

Natl. Eng., Vol. 83, No. 12, p. 10-11, Dec. 1979

0679 82 Article, Combustion

Slagging of the furnace walls in pulverized coal fired steam boilers
By Hupa, M. / Eriksson, B.E. Abokademi, Turku, Finland
Kemia-Kemi/Finnish Chemistry, Vol. 6, Iss. 11, p. 607-612, Nov. 1979

0679 83 Article, Combustion, Beneficiation

Fluidised combustion of coal washery waste
By Waters, P.L. CSIRO, Division of Process Technology, North-Ryde, Australia
Colliery Guardian, Vol. 227, No. 1, p. 50-54, Jan. 1979

0679 84 Article, Combustion

Atmospheric corrosion protection for carbon steel in coal and lignite fired power plants
By Lichtenstein, J.
Power Eng., Vol. 833, No. 8, p. 67-68, Aug. 1979

0679 85 Article, Combustion, Environment

Emission control for industrial coal fired boilers, Part I
By Dimitry, P. / Gambhir, S.P. / Heil, T.J. Gilbert/Commonwealth, Jackson, Michigan
Natl. Eng., Vol. 83, Iss. 10, p. 10-15, Oct. 1979

0679 86 Article, Combustion

Fluidized bed combustion of low calorific value fuels
By Gibson, J. National Coal Board, London, United-Kingdom
Colliery Guardian, Vol. 227, No. 9, p. 523-528, Sept. 1979

0679 87 Article, Combustion

Design and calculated performance and cost of the ECAS phase II open cycle MHD power generation system
By Harris, L.P. General Electric Company, Philadelphia, Pennsylvania
Combustion, Vol. 50, No. 9, p. 21-30, March 1979

0679 88 Article, Combustion

Steam generator design features for variable load operation
By Burback, H.E. / Fox, J.D. / Hamilton, T.B. C-E Power Systems, Inc., Windor, Conneticut
Combustion, Vol. 50, No. 12, p. 36-47, June 1979

0679 89 Article, Combustion

Structure of coal char 1. Pore branching
By Simons, G.A. / Finson, M.L. Physical Sciences, Inc., Woburn, Massachusetts
Combustion Science & Technol., Vol. 19, No. 5-6, p. 217-225, 1979

0679 90 Article, Combustion, Gasification

Structure of coal char - 2. Pore combination
By Simons, G.A. Physical Sciences, Inc., Woburn, Massachusetts
Combustion Science & Technol., Vol. 19, No. 5-6, p. 227-235, 1979

0679 91 Article, Combustion

Appearance of nitric oxide and cyanide in one dimensional coal dust/oxidizer flames
By Altenkirch, R.A. / Peck, R.E. / Chen, S.L. University of Kentucky, Lexington, Kentucky
Combustion Science & Technol., Vol. 20, No. 1-2, p. 49-58, 1979

0679 92 Article, Combustion, Environment

Direct fired coal system solves pollution and fuel problems
By Graves, D. / Lindsay, R.
Rock Products, Vol. 82, No. 2, p. 62-64, Feb. 1979

0679 93 Article, Combustion

Hot corrosion of Ni base turbine alloys in atmospheres in coal conversion systems
By Huang, T.T. / Gulbransen, E.A. / Meier, G.H. University of Pittsburgh, Pittsburgh, Pennsylvania
J. Metals, Vol. 31, No. 3, p. 28-35, March 1979

0679 94 Article, Combustion

Fluidized bed combustion of coal with lime additives. Kinetics and mechanism of regeneration of the lime sorbent
By Chen, J.M. / Yang, R.T. Brookhaven National Laboratory, Upton, New-York
Ind. Eng. Chem. Fundam., Vol. 18, No. 2, p. 134-138, May 1979

0679 95 Article, Combustion

Evaluation of performance data from fabric filter collectors on coal fired boilers
By Noll, K.E. / Patel, M. Illinois Institute of Technology, Chicago, Illinois
Filtration Separation, Vol. 16, No 3, p. 230-237, June 1979

0679 96 Article, Combustion

Coal oil mixtures: A good idea from DOE
By George, T.J. / Campbell, T.C. / Bergman, P.D. United-States Department of Energy, Morgantown, West-Virginia
Coal Min. Process, Vol. 16, No. 3, p. 68-72, March 1979

0679 97 Article, Combustion

New regenerable sorbents for fluidized bed coal combustion
By Ruth, L.A. / Varga, G.M. Exxon Research and Engineering Company, Linden, New-Jersey
Environ. Sci. Technol., Vol. 13, No. 6, p. 715-720, June 1979

0679 98 Article, Combustion

Economic feasibility of pressurized fluidized bed combustor power plant
By Singh, G. / Moskowitz, S. Stone & Webster Engineering Corporation, Boston, Massachusetts
Combustion, Vol. 50, No. 8, p. 22-25, Feb. 1979

0679 99 Article, Combustion

Fluidized bed combustion technology for industrial boiler of the future - A progress report
By Walker, D.J. / Mcilroy, R.A. / Lange, H.B. Babcock & Wilcox Company, Alliance, Ohio
Combustion, Vol. 50, No. 8, p. 26-32, Feb. 1979

0679 100 Article, Combustion

Dry as dust or how to dry particles with energy economy
By Potter, O.E. Monash University, Clayton, Australia
Chem. Eng. Australia, Vol. ChE 4, No. 2, p. 26-29, June 1979

0679 101 Article, Combustion

Coal fired fluid bed gas turbine cogeneration system
By Foster-Pegg, R.W. Westinghouse Electric Corporation, Pittsburgh, Pennsylvania
Combustion, Vol. 50, No. 12, p. 29-35, June 1979

0679 102 Article, Combustion

Fluidized bed industrial boiler
By Anderson, J.B. / Norcross, W.R. Combustion Engineering, Inc., Windsor, Connecticut
Combustion, Vol. 50, No. 8, p. 9-14, Feb. 1979

0679 103 Article, Combustion

Experiments on prevention and suppression of coal dust explosions by bromochlorodifluoromethane and on prevention by carbon tetrachloride
By Rae, D. / Thompson, W. Safety in Mines Research Establishment, Harpur Hill, Buxton, United-Kingdom
Combustion & Flame, Vol. 35, No. 2, p. 131-138, June 1979

0679 104 Article, Combustion

Chemical studies of stack fly ash from a coal fired power plant
By Coles, D.G. / Ragaini, R.C. / Ondov, J.M. / Fisher, G.S. / Silberman, D. / Prentice, B.A. Lawrence Livermore Laboratory, University of California, Livermore, California
Environmental Science & Technol., Vol. 13, No. 4, p. 455-459, April 1979

0679 105 Article, Combustion

A model for coal fly ash filtration
By Dennis, R. / Klemm, H.A. Geophysical Corporation of America, Bedford, Massachusetts
J. Air Pollut. Control Assoc., Vol. 29, Iss. 3, p. 230-234, March 1979

0679 106 Article, Combustion

Erosion corrosion effects on boiler tube metals in a multisolids fluidized bed coal combustor
By Krause, H.H. / Vaughan, D.A. / Sexton, R.W. / Boyd, W.K. Battelle Columbus Laboratories, Columbus, Ohio
J. Eng. Power, Vol. 101, Iss. 1, p. 1-8, Jan. 1979

0679 107 Article, Combustion

A technology for helping to alleviate the energy problem: Fluidized bed combustion and heat transfer
By Howard, J.R. University of Aston, Birmingham, United-Kingdom
Energy Ind., Vol. 1979, p. 111-129, 1979

0679 108 Article, Combustion

Pulverised coal combustion successfully used in RSP system
By Fukuda, Y. / Ueda, Y. Central Research Laboratory, Onoda Cement Co. Ltd., Japan
World Cement Technol., Vol. 10, Iss. 7, p. 238, 241-242, 245-247, Sept. 1979

0679 109 Article, Combustion

Metallurgical problems and opportunities in coal fired steam power plants
By Jaffee, R.I. Electric Power Research Institute, Palo-Alto, California
Metallurgical Trans. A., Vol. 10A, No. 2, p. 139-164, Feb. 1979

0679 110 Article, Combustion, Environment, Properties

Trace element emissions from coal fired power plants
By Meserole, F.B. / Schwitzgebel, K. / Magee, R.A. / Mann, R.M. Radian Corporation, Austin, Texas
J. Eng. Power. Trans. A.S.M.E., Vol. 101, No. A, p. 620-624, Oct. 1979

0679 111 Article, Combustion

Mineral matter in coal and the thermal performance of large boilers
By Wall, T.F. / Lowe, A. / Wibberley, L.J. / Stewart, I.M. University of Newcastle, Newcastle, Australia
Prog. Energy Combustion Sci., Vol. 5, No. 1, p. 1-29, 1979

0679 112 Report, Combustion, Gasification, Liquefaction

Investigations on the flow and pumping behaviour of coal oil mixtures with particular reference to the injection of a coal oil slurry into the blast furnace
By Kreusing, H. / Franke, F.H. Technical University of Aachen, Aachen, Germany
Hydrotransport, Vol. 6, No. 1, p. 137-152, 1979

0679 113 Book, Combustion, Mining, Environment, Energy Policy

The direct use of coal: Prospects and problems of production and combustion
United-States Congress, Office of Technology Assessment, Washington, District-of-Columbia
United-States Congress, Office of Technology Assessment, Washington, D.C., April 1979
Report No.: NTIS.PB-295797

0679 114 Article, Combustion

Fluidized bed combustion of high sulfur coals
By Haque, R. / Dutta, M.L. / Chakrabarti, R.K. Regional Research Laboratory, Jorhat, Assam, India
J. Institute of Energy, Vol. 52, No. 413, 1979, p. 173-177, 1979

0679 115 Article, Combustion

20 years of pulverized coal firing research of IFF/DVV and actual - test results of pulverized coal flames
By Michelfelder, S. / Jacobs, J.
Combustion, Vol. 51, No. 6, p. 7-17, Dec. 1979

0679 116 Report, Combustion, Beneficiation, Environment

User's manual for atmospheric fluidized bed combustor system - Economic performance algorithm computer program
TRW Energy Systems Planning Division, McLean, Virginia
United-States Department of Energy, 81p., 1979
Report No.: DOE/MC/12063-T1

0679 117 Article, Combustion, Beneficiation

Emission control for industrial coal fired boilers. Part 2
By Dimitry, P. / Gambhir, S.P. / Heil, T.J. Gilbert/Commonwealth, Jackson, Michigan
Natl. Eng., Vol. 83, Iss. 11, p. 4-8, Nov. 1979

0679 118 Article, Combustion, Properties

Sulphuric acid vapor concentrations in flue gas from fluidized combustors
By Hotchkiss, R.C. / Burdett, N.A. / Langdon, W.E. Marchwood Engineering Laboratories, CEGB, London, United-Kingdom
IEE Conf. Publ., Vol. 171, 1979, p. 355-357, 1979

0679 119 Article, Combustion

Combined cycle using gas from coal holds promise for electric generation

Power, Vol. 123, No. 6, June 1979, p. 99-102, June 1979

0679 120 Article, Combustion

Fluidized bed technology moves into commercial operation

National Engineer, Vol. 83, No. 5, May 1979, p. 7-10, May 1979

0679 121 Article, Combustion

The structural and chemical transformations of brown coal in three stage rapid heating
By Meisserova, O.K. / Larina, N.K. / Skripchenko, G.B. Rostov State University, Rostov-on-Don, USSR
Solid Fuel Chemistry, Vol. 13, No. 2, p. 1-7, March 1979

0679 122 Article, Combustion, Energy Policy, Environment

Preparing new source review applications for coal fired power plants
By Siegel, R.D. / Wilson, J.W. / Petrillo, J.L. Stone & Webster Engineering Corporation, Boston, Massachusetts
Power Eng., Vol. 83, No. 3, p. 70-74, March 1979

0679 123 Article, Combustion

Metallurgical and chemical lime production via a coal fired preheater system
By Gori, T. / Schwarzkopf, F. Kennedy Van-Saun Corporation, Danville, Pennsylvania
Pit Quarry, Vol. 71, No. 12, p. 100-104, June 1979

0679 124 Article, Combustion, Environment

A full scale validation of SRC fuel
By Hickman, C.E. Southern Company Services, Inc., Birmingham, Alabama
Coal Process. Technol., Vol. 5, p. 64-72, May 1979

0679 125 Article, Combustion, Beneficiation

A mineralogical investigation into problems associated with the particle size analysis of fine grit from a pulverized coal fired power station
By von-Wolff, W.T. / Gaigher, J.L. Fuel Research Institute of South-Africa, Pretoria, South-Africa
J. Inst. Energy, Vol. 52, No. 410, p. 11-14, March 1979

0679 126 Report, Combustion

Materials of construction for atmospheric fluidized bed coal combustion
By Nangia, V.K. Engineering Societies Commission on Energy, Inc., Washington, District-of-Columbia
United States Department of Energy, Inc., Washington, D.C. p. 172, Feb. 1979
Report No.: FE-2468-43(Vol.1)

0679 127 Article, Combustion

Influence of the aggressive action of the products of the rapid pyrolysis of brown coal on constructional materials
By Raevskaya, I.S. / Kunin, A.M. / Karasev, V.A. / Shibaev, R.M.
Solid Fuel Chem, Vol. 13, No. 2, p. 72-74, March 1979

0679 128 Article, Combustion, Properties

Power evaluation of an experimental specimen of the Ugole K 4 central heating stove in the combustion of Polish cannel coals
By Pochcial, E. Main Mining Institute, Katowice, Poland
Solid Fuel Chem, Vol. 13, No. 2, p. 75-79, March 1979

0679 129 Article, Combustion, Properties

Investigation of the influence of the composition of the gaseous medium on the formation of the properties of carbonaceous materials in firing
By Maksimova, N.A. / Lapina, N.A. / Ostrovskii, V.S.
Solid Fuel Chem, Vol. 13, No. 2, p. 89-91, March 1979

0679 130 Article, Combustion, Gasification

Change in the electric potential of solid fuels on their combustion and gasification
By Fialkov, B.S. / Zakharov, A.G. / Plitsyn, V.T.
Solid Fuel Chem, Vol. 13, No. 2, p. 109-112, March 1979

0679 131 Article, Combustion

Substance composition and optical properties of the products of the thermal degradation of low rank coals of the Donets basin

By Savchuk, S.V. / Grinval'd, M.A. / Nesterenko, L.L. / D'yachenko, Y.V.
Solid Fuel Chem, Vol. 13, No. 2, p. 54-58, March 1979

0679 132 Article, Combustion, Environment

Two coal combustion alternatives: Reducing pollution potentials
By Dykstra, D.E. / Shields, K.J. / Budden, K.G. Hittman Associates, Inc., Columbia, Maryland
Coal Process Tech, Vol. 5, p. 140-145, May 1979

0679 133 Article, Combustion

Upgrading coal liquids to turbine fuels
By Stein, T.R. / Heck, R.H. / Callen, R.B. / Voltz, S.E. Mobil Research and Development Corporation, Paulsboro, New-Jersey
Coal Process Tech, Vol. 5, p. 197-198, May 1979

0679 134 Article, Combustion

On the thermal stability of primary tar
By Sukhorukov, V.I. / Morozov, O.S. / Bezdvernyi, G.N. Eastern Scientific Research Institute of Coal Chemistry, Vukhin, USSR
Solid Fuel Chem, Vol. 13, No. 1, p. 73-75, Jan. 1979

0679 135 Article, Combustion

The CO//2 reaction capacity of cokes from petrographic microcomponents of poorly caking Kuzbass coals
By Alaev, G.P. / Rodkin, S.P. Irkutsk State University, Irkutsk, USSR
Solid Fuel Chem, Vol. 13, No. 1, p. 92-94, Jan. 1979

0679 136 Article, Combustion, Properties

Statistical methods of studying the structure of coal matter. Determining the chemical composition of domestic electrode pitches by spectral statistical methods
By Turenko, F.P. / Shevchenko, I.D. / Baranskii, A.D.
Solid Fuel Chem, Vol. 13, No. 1, p. 95-100, Jan. 1979

0679 137 Article, Combustion

Comparison of coke produced in different Canmet coke ovens - Part 2
By Price, J.T. / Leeder, W.R. Canada Centre for Mineral and Energy Technology, Ottawa, Ontario
Energy, Mines and Resources, Ottawa, Ontario, Canm. 79-40, Dec. 1979
Report No.: CANM.79-40

0679 138 Book, Combustion, Gasification, Liquefaction

Technology assessment for an atmospheric fluidized bed combustion demonstration plant
By Siman-Tov, M. / Bradley, N.C. / DeCicco, S.G. / Fox, E.C. / Godfrey, T.G. / Kuhlmann, R.E. / Holcomb, R.S. / Lackey, M.E. / Mitchell, H.A. Oak-Ridge National Laboratory, Oak-Ridge, Tennessee
Oak-Ridge National Laboratory, Oak-Ridge, Tennessee, ORNL-5579, 208p, Dec. 1979

0679 139 Article, Combustion, Beneficiation

Superfine coal: the existing solution to greater coal usage
By Graybill, R.W., Coal Tech-Farrier, York, Pennsylvania
Coal Tech (Houston), Vol. 2, No. 4, p. 21-26, April 1979

0679 140 Article, Combustion

Firing brick tunnel kilns with coal
By Brimer, W.F.
Coal Tech (Houston), Vol. 2, No. 4, p. 165-72, April 1979

0679 141 Article, Combustion

Electrochemical features of the process of spontaneous heating of peat during storage
By Aleksandrov, I.V. / Khokhlov, Y.I. / Kamneva, A.I. Moscow Chemical Technology Institute, Moscow, USSR
Solid Fuel Chem, Vol. 13, No. 1, p. 48-51, 1979

0679 142 Article, Combustion

Coal firing of cement kilns
By Musto, R.L.
Coal Tech (Houston), Vol. 2, No. 4, p. 173-196, April 1979

0679 143 Article, Combustion, Liquefaction

Calculation of carbon load and axial profiles of oxygen concentration in the bed of a fluidized combustor
By Donsi, G. / Massimilla, L. / Miccio, M. / Russo, G. / Stecconi, P. Universita P. le V. Tecchio, Napoli, Italy
Combust Sci Tech, Vol. 21, No. 1-2, p. 25-33, Jan. 1979

0679 144 Article, Combustion

B&W/EPRI fluidized bed development program
By Smith, J.W. / Bonk, D.L. / Howe, W.D. Babcock & Wilcox Company, Alliance, Ohio
Coal Tech (Houston), Vol. 2, No. 4, p. 259-284, March 1979

0679 145 Article, Combustion

Atmospheric fluidized bed fired industrial size steam generator design
By Stewart, R.D. / Garcia-Mallol, J.A. Foster Wheeler Energy Corporation, Livingston, New-Jersey
Coal Tech (Houston), Vol. 2, No. 4, p. 197-215, April 1979

0679 146 Article, Combustion

Fluidized beds for coal burning
By Stoton, J. / Irving, C.R. Fluidized Combustion Contractors Limited, Sydney, Australia
Chem Eng Aust., Vol. CHE 4, No. 4, p. 32, 34-37, Dec. 1979

0679 147 Article, Combustion

Fluidized bed combustion. A state of the art review
By La-Nauze, R.D. CSIRO, Division of Process Technology, North-Ryde, Australia
Chem Eng Aust., Vol. CHE 4, No. 4, p. 20-22, 24, April 1979

0679 148 Article, Combustion

Fluidized bed combustion as a solution to the washery wastes disposal problem
By Duffy, G.J. / Kable, J.W. CSIRO, Division of Process Technology, North-Ryde, Australia
Chem Eng Aust., Vol. CHE 4, No. 4, p. 41-45, April 1979

0679 149 Article, Combustion

Periodicity of the oxidation of hard coals
By Kucher, R.V. / Butuzova, L.F. / Shendrik, T.G.
Solid Fuel Chem, Vol. 13, No. 4, p. 17-20, 1979

0679 150 Article, Combustion, Gasification

Properties of refractories after exposure to high pressure gases. 1. Survey of commercial products
By Rahman, S.F. / Day, D.E. University of Missouri-Rolla, Rolla, Missouri
J. Mater. Energ. Syst., Vol. 1, No. 3, p. 34-44, Dec. 1979

0679 151 Report, Combustion

Hot corrosion/erosion testing of materials for application to advanced power conversion systems using coal derived fuels - Task II - Fluidized bed combustion
By Nutkis, M.S. / Loughname, M.D. / Ernst, M. / Bertrand, R.R. / Matulevicius, E.S. Exxon Research and Engineering Company, Linden, New-Jersey
United States Department of Energy, 155p., Nov. 1979
Report No.: FE-2452-39

0679 152 Book, Combustion, Transportation, Environment

Full scale utility boiler test with solvent refined coal (src) final report
By McRanie, R.D. Southern Company Services, Inc., Birmingham, Alabama
United-States Department of Energy, 214p., July 1979
Report No.: FE-2222-9

0679 153 Article, Combustion

Study of the loss of trace elements in the ashing of coals
By Egorov, A.P. / Laktionova, N.V. / Popinako, N.V.
Solid Fuel Chem, Vol. 13, No. 2, p. 24-27, 1979

0679 155 Article, Combustion

One stage cyclone combustors for coal fired test stand of 4mw thermal power
By Kozlowski, T. / Rybacki, Z. / Brzozowski, W.S. Institute of Nuclear Research, Swierk, Poland
Eng Aspects Magnetohydrodyn, Vol. 18, p. k/4/1 - K/4/6, 1979

0679 156 Article, Combustion

High slag rejection, high carbon conversion rate, air cooled cyclone coal combustor for MHD regenerative heat exchangers
By Omori, S. / Cook, C.S. / Tate, E. / Rogers, D.E. / Dickinson, K. General Electric Company, King-of-Prussia, Pennsylvania
Eng Aspects Magnetohydrodyn, Vol. 18, p. k/5/1-k/5/10, 1979

0679 157 Article, Combustion

Progress in coal combustion research at Avco Everett Research Laboratory Inc.
By Becker, F.E. / Stickler, D.B. / Delichatsois, M.M. / Ballantyne, A. Avco Everett Research Laboratory, Inc., Everett, Massachusetts
Eng Aspects Magnetohydrodyn, Vol. 18, p. k/2/1 - k/2/7, 1979

0679 158 Book, Combustion

Critical contributions in MHD power generation, final technical progress report, June 1, 1975 - December 30, 1978, Vol. 1 and 2
By Louis, J.F. Massachusetts Institute of Technology, Cambridge, Massachusetts
United-States Department of Energy, 884p., April 1979
Report No.: FE-2215-13(Vol.1,Vol.2)

0679 159 Book, Combustion, Environment

Pollutant control through staged combustion of pulverized coal - final report May Oct. 1978
By Wendt, J.O. / Glass, J.W. University of Arizona, Tucson, Arizona
United-States Department of Energy, 153p., May 1979
Report No.: FE-1817-6

0679 160 Article, Combustion, Properties

A study of coals of the Donbass with and without a tendency to spontaneous ignition
By Saranchuk, V.I. / Galushko, L.Y. / Pashchenko, L.V.
Solid Fuel Chem. , Vol. 13, No. 6, p. 1-5, 1979

0679 161 Article, Combustion

Converting existing boilers to coal oil mixture
By Ziegler, M.J. McKee Engineers and Constructors, Houston, Texas
Coal Tech, Vol. 2, No. 4, p. 9-19, 1979

0679 162 Article, Combustion

Coupled generator and combustor performance calculations for potential early commercial MHD power plants
By Dellinger, T.C. / Hnat, J.G. / Marston, C.H. General Electric Company, King-of-Prussia, Pennsylvania
Eng. Aspects Magnetohydrodyn, Vol. 18, p.G/5/1-G/5/11, 1979

0679 163 Book, Combustion

Combustion studies of coal in oil droplets, final report, August 1, 1977 July 31, 1979
By Law, C.K. Northwestern University, Evanston, Illinois
United-States Department of Energy, 46p., Dec. 1979
Report No.: DOE/ET/10660-T1

0679 164 Report, Combustion

Combustion and agglomeration of coal oil mixtures in furnace environments
By Miyasaka, K. / Law, C.K. Northwestern University, Evanston, Illinois
United-States Department of Energy, 28p., Dec. 1979
Report No.: DOE/ET/10660-T1

0679 165 Article, Combustion, Properties

The question of the interconnection of the reactivity of carbonaceous materials with their crystal structure
By Cherednik, E.M. / Smirnov, Y.E. / Nagornyi, V.G. / Ostrovskii, V.S.
Solid Fuel Chem, Vol. 13, No. 4, p. 24-27, 1979

0679 166 Report, Combustion

Multicell fluidized bed boiler design construction and test program, quarterly progress status report for period January - March 1979
By Pope, Evans and Robbins, Inc., New-York, New-York
United-States Department of Energy, 73p., July 1979
Report No.: DOE/ET/1237-01/15

0679 167 Book, Combustion

Evaluation of technical feasibility of closed cycle non equilibrium MHD power generation with direct coal firing, final report for April 1, 1976 - March 31, 1979
By Cook, C.S. / Marston, C.H. / Dellinger, T.C. / Omori, S. / Hnat, J.G. / Zauderer, B. / Coppa, A. / Rogers, D.E. / Gray, E. / Dickinson, K. / Davis, L.K. / Alyea, F. / Kennedy, A.J. / Komito, E. / Roman, A. / Tate, E. / Bethke, G. / Parsons, J.R. General Electric Company, King-of-Prussia, Pennsylvania
United-States Department of Energy, 470p., 1979
Report No.: FE-2238-T1

0679 168 Book, Combustion

Reliability analysis of the Georgetown University atmospheric fluidized bed combustor - final report
By Hammelman, J.E. / Land, R.E. / Simmons, J.A. / Wood, P.J. Science Applications, Inc., McLean, Virginia
United-States Department of Energy, 195p., Nov. 1979
Report No.: SAI-129-79-PGH

0679 169 Book, Combustion

Gaseous electrode development - final report
By Jones, M.S. / Scannell, E.P. / Sathyanarayana, K. / Thiagarajan, V. / Mallavarpu, R. / Armstrong, A.J. Reynolds Metals Company, Sheffield, Alabama
United-States Department of Energy, 97p., Dec. 1979
Report No.: FE-2476-1

0679 170 Book, Combustion

Development, testing and evaluation of MHD materials and component designs, final report
By Sadler, J.W. / Bein, J. / Black, D.L. / Cadoff, L.H. / Dilmore, J.A. / Eggers, A.G. / Frantti, E.W. / Kochka, E.L. / Kuszyk, J.A. / Lau, S.K. / Lempert, J. / Rossing, B.R. / Schneider, S.J. / Schornhorst, J.R. Westinghouse Electric Corporation, Pittsburgh, Pennsylvania
United-States Department of Energy, 104p., June 1979
Report No.: FE-2248-24

0679 171 Article, Combustion, Beneficiation

Dependence of the temperature characteristics on the chemical composition of solid fuel ash
By Baryshev, V.I.
Solid Fuel Chem, Vol. 13, No. 5, p. 69-73, 1979

0679 172 Article, Combustion, Properties

On the autooxidation of the coals used at the Kremikovtsy coke works
By Markova, K.I. / Ruschev, D.D.
Solid Fuel Chem, Vol. 13, No. 1, p. 33-35, 1979

0679 173 Article, Combustion

Oxidaton of coals with nitrate in concentrated caustic soda solutions at elevated temperatures
By Kawamura, H. / Okuwaki, A. / Horie, O. / Amano, A. / Okabe, T. Tohoku University, Sendai, Japan
Prepr Pap, Am Chem Soc, Div Fuel, Vol. 24, No. 2, p. 208-211, 1979

0679 174 Article, Combustion, Properties

Structural changes in Donbass anthracites during thermal treatment
By Gilyazov, U.S.
Solid Fuel Chem, Vol. 13, No. 1, p. 36-40, 1979

0679 175 Book, Combustion

The combustion of carbon, coal and coal related fuels in an opposed flow diffusion flame burner - dissertation
By Chin, W.K. University of California, Berkeley, California
University of California, Berkeley, California, 144p., 1979

0679 176 Book, Combustion

Mixing and combustion of pulverized coal - dissertation
By Thurgood, J.R. Brigham-Young University, Provo, Utah
Brigham-Young University, Provo, Utah, 270p., 1979

0679 177 Article, Combustion

Wall combustion in high swirl combustors
By Chung, P.M. / Smith, R.S. Argonne National Laboratory, Argonne, Illinois
Eng Aspects Magnetohydrodyn, Vol. 18, p. K.3.1-K.3.8, 1979

0679 178 Article, Combustion

The effect of electrochemical and arcing phenomena on electrode performance
By Cadoff, L.H. / Lau, S.K. / Rossing, B.R. Westinghouse Research and Development Center, Pittsburgh, Pennsylvania
Eng Aspects Magnetohydrodyn, Vol. 18, p. D-1.4.1-D-1.4.11, 1979

0679 179 Article, Combustion, Environment

The sulfurtain process: A technique to minimize sulfur emissions, Part 1, Laboratory studies on the low temperature combustion of compacted limestone - coal mixtures
By Buttermore, W.H. West-Virginia University, Morgantown, West-Virginia
West-Virginia University, Report No. 168, 26p., 1979
Report No.: 168

0679 180 Article, Combustion

Discharge and corrosion characteristics of slagging metal electrodes for MHD power generators
By Koester, J.K. / Perkins, R.A. Stanford University, Stanford, California
J Mater Energy Syst, Vol. 1, No. 2, p. 41-54, 1979

0679 181 Report, Combustion

Heat generation of spent bed materials from atmospheric fluidized bed combustion of coal
By Kim, R.H. United-States Environmental Protection Agency, Research-Triangle-Park, North-Carolina
United-States Environmental Protection Agency, 73p., Sept. 1979
Report No.: EPA-600/7-79-223

0679 182 Book, Combustion

Development of molten carbonate fuel cells for power generation - Final Report, August 1977 December 1979
General Electric Company, Schenectady, New-York, April 1980
Report No.: SRD-80-055

0679 183 Report, Combustion, Environment

Field tests of industrial stoker coal fired boilers for emissions control and efficiency improvement - Site D
By Gabrielson, J.E. / Langsjoen, P.L. / Kosvic, T.C. KVB, Inc., Minneapolis, Minnesota
United-States Environmental Protection Agency, 107p., Nov. 1979
Report No.: EPA-600/7-79-237a

0679 184 Report, Combustion, Environment

Field tests of industrial stoker coal fired boilers for emissions control and efficiency improvement - Site C
By Gabrielson, J.E. / Langsjoen, P.L. / Kosvic, T.C. KVB, Inc., Minneapolis, Minnesota
United-States Environmental Protection Agency, 129p., May 1979
Report No.: EPA-600/7-79-130a

0679 185 Report, Combustion, Environment

Review of new source performance standards for coal fired utility boilers, phase three report sensitivity studies for the selection of a revised standard
By Van-horn, A.J. / Ferrell, G.C. / Brandi, R.M. / Champa, R.A. Teknekron Research, Inc., Berkeley, California
United-States Environmental Protection Agency, 206p., 1979
Report No.: EPA-600/7-79-215

0679 186 Conference proceedings, Combustion

The effect of mineral matter and flame characteristics on the size of fly ash produced from pulverized fuel combustion
By Pohl, J.H. Sandia Laboratories, Livermore, California
36th Meeting of the Pulverized Fuel Panel of the International Flame Research Foundation, Amsterdam, The Netherlands, September, 1979, 7p., Sept. 1979
Report No.: SAND-79-8729

0679 187(*) Conference proceedings, Combustion, Energy Policy, Gasification, Liquefaction

Proceedings of the first conference on advanced materials for alternative fuel capable directly fired heat engines, Maine Maritime Academy, Castine, Maine, 31 July - 3 August 1979

United-States Department of Commerce, 967p., 1979

0679 188 Report, Combustion

Conceptual design of a gulf coast lignite fired atmospheric fluidized bed power plant
By Kimel, E. / Panico, S. / Armstrong, J. / Wysocki, J. Burns and Roe, Inc., Woodbury, New-York
Electric Power Research Institute, 170p., Sept. 1979
Report No.: EPRI FP-1173

0679 189 Article, Combustion, Mining

The Du Pont sequential blasting system
By Tansey, D.O.
CIM Bulletin, p 80-85, July 1979

0679 190 Report, Combustion, Environment, Beneficiation

Coal desulfurization prior to combustion
By Wrathall, J. / Vermeulen, T. / Ergun, S. Lawrence Berkeley Laboratory, Berkeley, California
Lawrence Berkeley Laboratory, 19p., 1979
Report No.: LBL-10118-UC-90e

0679 191 Conference proceedings, Combustion

Bed expansion and attrition studies in a coal fired fluidized bed
By Miller, G. / Zakkay, V. / Kolar, A. / Franceschi, J. / Skelley, W. New-York University, New-York, New-York

Alternative Energy Sources 2, Proc of the Miami Int Conf 2nd, Vol. 7, Hydrocarbon Convers, Miami-Beach, Florida, Dec. 10/13, 1979, p. 2955-2968, 1981

0679 192 Conference proceedings, Combustion

Combustion of coal suspension fuels using air atomizers
By Kranc, S.C. University of South-Florida, Tampa, Florida
Alternative Energy Sources 2, Proc of the Miami Int Conf 2nd, Vol. 7, Hydrocarbon Convers, Miami-Beach, Florida, Dec. 10/13, 1979, p. 2969-2982, 1981

0679 193 Conference proceedings, Combustion, Environment

Fluidized bed combustion of coal
By Tatebayashi, J. / Okada, Y. / Yano, K. / Takada, T. / Handa, K. Kawasaki Heavy Industries Ltd., Konohana-ku, Osaka, Japan
Alternative Energy Sources 2, Proc of the Miami Int Conf 2nd, Vol. 7, Hydrocarbon Convers, Miami-Beach, Florida, Dec. 10/13, 1979, p. 2983-2997, 1981

0679 194 Conference proceedings, Combustion

Coal oil mixtures: their technical and commercial status
By Viola, M.A. / Botsaris, G.D. Tufts University, Medford, Massachusetts
Alternative Energy Sources 2, Proc of the Miami Int Conf 2nd, Vol. 7, Hydrocarbon Convers, Miami-Beach, Florida, Dec. 10/13, 1979, p. 3071-3077, 1981

0679 195 Conference proceedings, Combustion, Energy Policy, Gasification

The economics of advanced technologies for electricity generation from coal
By Hemming, D.F. / Johnston, R. / Teper, M. IEA Coal Research, London, United-Kingdom
Alternative Energy Sources 2, Proc of the Miami Int Conf 2nd, Vol. 7, Hydrocarbon Convers, Miami-Beach, Florida, Dec. 10/13, 1979, p. 3079-3097, 1981

0679 196 Conference proceedings, Combustion, Energy Policy

The economics of near term alternatives for coal based electricity generation
By Forrester, R.C. / Johnston, R. Oak-Ridge National Laboratory, Oak-Ridge, Tennessee
Alternative Energy Sources 2, Proc of the Miami Int Conf 2nd, Vol. 7, Hydrocarbon Convers, Miami-Beach, Florida, Dec. 10/13, 1979, p. 3099-3101, 1981

0679 197 Conference proceedings, Combustion

Economics and concepts of industrial coal fluidized bed combustion in Brazil
By Saddy, M. / Szego, J. Centro de Technologia Promon, Rio-de-Janeiro, Brazil
Alternative Energy Sources 2, Proc of the Miami Int Conf 2nd, Vol. 7, Hydrocarbon Convers, Miami-Beach, Florida, Dec. 10/13, 1979, p. 3177-3189, 1981

0679 198 Conference proceedings, Combustion, Energy Policy

The feasibility of using coal to heat and cool public buildings in West Virginia
By Steinhardt, E.J. West-Virginia University, Morgantown, West-Virginia
Alternative Energy Sources 2, Proc of the Miami Int Conf 2nd, Vol. 7, Hydrocarbon Convers, Miami-Beach, Florida, Dec. 10/13, 1979, p. 3199-3213, 1981

0679 199 Article, Combustion

Investigation on coal combustion and its application to furnace design
By Bhaduri, D. / Dutta, A.B. Central Mechanical Engineering Research Institute, Durgapur, India
Mech Eng Bull, Vol. 10, No. 4, p. 75-86, 1979

0679 200 Report, Combustion

Oxygen enrichment for open cycle magnetohydodynamic power systems
Gilbert/Commonwealth, Reading, Pennsylvania
United-States Department of Energy, 50p., 1981
Report No.: DOE/ET/11058-T1

0679 201 Report, Combustion

Study of corrosion and erosion of fluid bed coal combustor boiler tubes - report on Phase I
By Levelton, B.H. / O'Connor, D. B.H. Levelton & Associates Limited, Vancouver, British-Columbia
CANMET, 150p., 1979
Report No.: OSQ79-00005

0679 202 Conference proceedings, Combustion, Gasification

Coal fired advanced electric generation
By Feibus, H. / Garrett, C. / Yivisaker, I. United-States Department of Energy, Washington, District-of-Columbia
Proc Annu Int Conf on Coal Gasif, Liquef and Convers To Electr 6th, Pittsburgh, Pennsylvania, July 31-August 2, 1979, Publ by Univ of Pittsburgh, Sch of Eng, p. 214-242, 1979

0680 0 Report, Combustion

Status of the DOE/NASA critical gas turbine research and technology project
By Clark, J.S. Lewis Research Center, National Aeronautics and Space Administration, Cleveland, Ohio
United-States Department of Energy, Washington, D.C., March 1980
Report No.: NTIS.DOE/NASA/2593-79/11

0680 1 Book, Combustion

Low NO//x heavy fuel combustor program
By Nickhols, L. / Lister, E. / Niedzwiecki, R.W.
United-States Department of Energy, Washington, D.C., March 1980
Report No.: NTIS.DOE/NASA/1062-79/3

0680 2 Book, Combustion

An analytical study of nitrogen oxides and carbon monoxide emissions in hydrocarbon combustion with added nitrogen - Preliminary results
By Bittker, D.A.
United-States Department of Energy, Washington, D.C., March 1980
Report No.: NTIS.DOE/NASA/2593-79/10

0680 3 Article, Combustion, Environment

Mercury partitioning in a power plant plume and its influence on atmospheric removal mechanisms
By Lingerg, S.E. Oak-Ridge National Laboratory, Oak-Ridge, Tennessee
Atmospheric Environment, Vol. 14, No. 2, 1980, p. 227-231, 1980

0680 4 Article, Combustion, Beneficiation

Utilization of multiplexing techniques for existing TVA fossil power plants.
By Pankratz, W.L. / Pagano, A.F. Tennessee Valley Authority, Knoxville, Tennessee
Preprint, IEEE Power Engineering Society, Winter Meeting, 4 p., Feb. 1980

0680 5 Article, Combustion, Environment

Measurement of gas to particle conversion in the plumes from five coal fired electric power plants
By Hegg, D.A. / Hobbs, P.V. University of Washington, Seattle, Washington
Atmospheric Environment, Vol. 14, No. 1, p. 99-116, Jan. 1980

0680 6 Article, Combustion, Environment

Use of oil shale for SO//2 emission control in atmospheric pressure fluidized bed coal combustors
By Wilson, W.I. / Snyder, R.B. / Johnson, I. Argonne National Laboratory, Argonne, Illinois
Ind. Eng. Chem. Process Des. Dev., Vol. 19, No. 1, p. 47-51, Jan. 1980

0680 7 Article, Combustion

Physical interpretation of the feasibility region in the combustion of char by use of single and double film theories
By Georgakis, C. / Congalidis, J.P. / Lee, Y.Y. Massachusetts Institute of Technology, Cambridge, Massachusetts
Ind. Eng. Chem. Fundam., Vol. 19, No. 1, p. 98-103, Feb. 1980

0680 8 Article, Combustion, Environment

The development of fluidized bed combustion
By Highley, J. National Coal Board, Cheltenham, Gloucestershire, United-Kingdom
Environ. Sci. Technol., Vol. 14, No. 3, p. 270-275, March 1980

0680 9 Article, Combustion, Environment

Combined flue gas desulfurization and water treatment in coal fired power plants
By Borgwardt, R.H. United-States Environmental Protection Agency, Research-Triangle-Park, North-Carolina
Environ. Sci. Technol., Vol. 14, No. 3, p. 294-298, March 1980

0680 10 Article, Combustion, Geology

Spontaneous carbonization of oxidized high volatile coal by a lightning strike
By Pearson, D.E. / Creaney, S. British-Columbia Ministry of Energy, Mines and Petroleum Resources, Victoria, British-Columbia
Can. J. Earth Sci., Vol. 17, Iss. 1, p. 36-42, Jan. 1980

0680 11 Article, Combustion, Properties

Optical measurements of mean particle size in coal fired MHD flows
By Holve, D. / Self, S.A. Stanford University, Stanford, California
Combustion and Flame, Vol. 37, No. 2, p. 211-214, 1980

0680 12 Article, Combustion

Fluidized bed combustion of wet brown coal
By Jung, J. / Stanmore, B.R. University of Melbourne, Parkville, Australia
Fuel, Vol. 59. No. 2, p. 74-80, Feb. 1980

0680 13 Article, Combustion, Liquefaction

Stoichiometry of iron sulfides in liquefaction residues and correlation with conversion
By Montano, P.A. / Granoff, B. West-Virginia University, Morgantown, West-Virginia
Fuel, Vol. 59, No. 3, p. 214-216, 1980

0680 14 . Article, Combustion, Gasification

Flash in pyrolysis of coals. Devolatilization of bituminous coals in a small fluidized bed reactor
By Tyler, R.J. CSIRO, Division of Process Technology, North-Ryde, Australia
Fuel, Vol. 59, No. 4, p. 218-226, April 1980

0680 15 Article, Combustion

Simple volatility test for bituminous materials
By Sharp, J.A. British Carbonization Research Association, Chesterfield, Derbyshire, United-Kingdom
Fuel, Vol. 59, No. 4, p. 233-236, April 1980

0680 16 Article, Combustion, Energy Policy

Coal and the cement industry
By Garrett, H.M. Kaiser Engineers Inc., Oakland, California
Min. Eng. (New-York), Vol. 32, No. 2, p. 188-198, Feb. 1980

0680 17 Article, Combustion

Prediction of the burning rate of coal in fluidized bed combustion
By Sinha, P.K. / Datta, A.B. / Nandi, S.S. / Bhaduri, D. Central Mechanical Engineering Research Institute, Durgapur, India
Fuel, Vol. 59, No. 7, p. 527-531, July 1980

0680 18 Conference proceedings, Combustion

The development of flash pyrolysis in Australia
By Smith, I.W. / Bradshaw, A.V. CSIRO, Institute of Earth Resources, North-Ryde, Australia
Fifth Int. Conf. on Coal Research, Dusseldorf, Federal Republic of Germany, Preprints, Vol. 2, p. 1-21, Sept. 1980

0680 19 Conference proceedings, Combustion

Preliminary hydropyrolyis of coal to be burned in power plants
By Cypres, R. Universite Libre de Bruxelles, Brussels, Belgium
Fifth Int. Conf. on Coal Research, Dusseldorf, Federal Republic of Germany, Preprints, Vol. 2, p. 23-39, Sept. 1980

0680 20 Conference proceedings, Combustion

High grade granular activated carbons from Victorian brown coal
By Garner, L.J. / Packer, L.J. Victorian Brown Coal Council, Melbourne, Victoria, Australia
Fifth Int. Conf. on Coal Research, Dusseldorf, Federal Republic of Germany, Preprints, Vol. 2, p. 255-268, Sept. 1980

0680 21 Conference proceedings, Combustion, Environment

Overall flue gas treatment technology from coal fired power plants in Japan
By Kimura, T. / Nakabayashi, Y. / Mouri, K. Electric Power Development Co., Ltd., Japan
Fifth Int. Conf. on Coal Research, Dusseldorf, Federal Republic of Germany, Preprints, Vol. 2, p. 313-333, Sept. 1980

0680 22 Conference proceedings, Combustion

Commercial exploitation of fluidised combustion in the industrial market
By Kaye, W.G. National Coal Board, London, United-Kingdom
Fifth Int. Conf. on Coal Research, Dusseldorf, Federal Republic of Germany, Preprint, Vol. 2, p. 335-349, Sept. 1980

0680 23 Conference proceedings, Combustion, Liquefaction

Status report on coal oil mixtures and fluidized bed research, development and demonstration
By Voelker, G. / Freedman, S.I. United-States Department of Energy, Washington, District-of-Columbia
Fifth Int. Conf. on Coal Research, Dusseldorf, Federal Republic of Germany, Preprints, Vol. 2, p. 367-383, Sept. 1980

0680 24 Article, Combustion, Properties

Direct observation of the mesophase in coal
By Friel, J.J. / Mehta, S. / Mitchell, G.D. / Karpinski, J.M. Bethlehem Steel Corporation, Bethlehem, Pennsylvania
Fuel, Vol. 59, No. 9, p. 610-616, Sept. 1980

0680 25 Article, Combustion, Properties, Beneficiation

Rapid and simple determination by combustion of total sulphur in coal
By Finch, J. / Ives-Rohde, M.T. DSIR, Industrial Processing Division, Petone, New-Zealand
Fuel, Vol. 59, No. 9, p. 654-658, Sept. 1980

0680 26 Article, Combustion, Gasification, Liquefaction

A comparison of the Plume model with currently used models for atmospheric fluidized bed combustion
By Park, D. / Levenspiel, O. / Fitzgerald, T.J. Oregon State University, Corvallis, Oregon
Chem Eng Sci, Vol. 35, No. 1-2, p. 295-301, 1980

0680 27 Article, Combustion

Coal fired powerplants
By Wright, D.R. British-Columbia Hydro and Power Authority, Vancouver, British-Columbia
CIM Bull., Vol. 73, No. 815, p. 124-142, March 1980

0680 28 Article, Combustion

Combustion efficiency: simultaneous firing of coal with oil or gas in medium to heavy boilers
By Zunker, W.F. Combustion Service and Equipment Company, Pittsburgh, Pennsylvania
ASHRAE Journal, Vol. 22, No. 4, p. 53-55, April 1980

0680 29 Article, Combustion

Application of surface deposition models to size fractionated coal fly ash
By Biermann, A.H. / Ondov, J.M. Lawrence Livermore Laboratory, University of California, Livermore, California
Atmos. Environ., Vol. 14, No. 3, p. 289-295, 1980

0680 30 Article, Combustion, Properties

Fourier transform infrared study of the variation in the oxidation of a coking coal
By Painter, P.C. / Snyder, R.W. / Pearson, D.E. / Kwong, J. Pennsylvania State University, University-Park, Pennsylvania
Fuel, Vol. 59, No. 5, p. 282-286, May 1980

0680 31 Article, Combustion

Pyrolysis of brown coals. 3. Effect of cation content on the gaseous products containing oxygen from Yallourn coal
By Schafer, H.N. CSIRO, Division of Process Technology, North-Ryde, Australia
Fuel, Vol. 59, No. 5, p. 295-301, May 1980

0680 32 Article, Combustion

Pyrolysis of brown coals. 4. Relation between acidic groups and evolved carbon oxides.
By Schafer, H.N. CSIRO, Division of Process Technology, North-Ryde, Australia
Fuel, Vol. 59, No. 5, p. 302-304, May 1980

0680 33 Article, Combustion, Liquefaction

Atomic hydrogen/carbon ratios and the generation of oil from coals and kerogens
By Saxby, J.D. CSIRO, Fuel Geoscience Unit, North-Ryde, Australia
Fuel, Vol. 59, No. 5, p. 305-307, May 1980

0680 34 Article, Combustion, Properties

Carbonization and liquid crystals, (mesophase) development. 14. Co carbonization of coals with A240 Ashland petroleum pitch: Effects of conditions of carbonization upon optical textures of resultant cokes
By Marsh, H. / Gerus-Piasecka, I. / Grint, A. University of Newcastle-Upon-Tyne, Newcastle-Upon-Tyne, United-Kingdom
Fuel, Vol. 59, No. 5, p. 343-348, May 1980

0680 35 Article, Combustion, Properties

Flash pyrolysis of coals: Influence of cations on the devolatilization behavior of brown coals
By Tyler, R.J. / Schafer, H.N. CSIRO, Division of Process Technology, North-Ryde, Australia
Fuel, Vol. 59, No. 7, p. 487-494, July 1980

0680 36 Article, Combustion, Beneficiation

Laboratory studies of the rapid pyrolysis and desulfurization of a Texas lignite
By Torrest, R.S. / VanMeurs, P. Shell Oil Company, Houston, Texas
Fuel, Vol. 59, No. 7, p. 458-464, July 1980

0680 37 Article, Combustion, Geology

Phase changes in mineral matter of North Dakota lignites caused by heating to 1200 degrees C
By Nankervis, J.C. / Furlong, R.B. Wayne State University, Detroit, Michigan
Fuel, Vol. 59, No. 6, p. 425-430, June 1980

0680 38 Article, Combustion

Product compositions in rapid hydropyrolysis of coal
By Suuberg, E.M. / Peters, W.A. / Howard, J.B. Massachusetts Institute of Technology, Cambridge, Massachusetts
Fuel, Vol. 59, No. 6, p. 405-412, June 1980

0680 39 Article, Combustion

Light aromatics from the hydropyrolysis of coal
By Finn, M.J. / Fynes, G. / Ladner, W.R. / Newman, J.O. National Coal Board, Cheltenham, Gloucestershire, United-Kingdom
Fuel, Vol. 59, No. 6, p. 397-412, June 1980

0680 40 Article, Combustion, Liquefaction

Gas turbine combustor performance on synthetic fuels
By DeCorso, S.M. / Pillsbury, P.W. / Bauserman, G. / Mulik, P.R. / Stein, T.R. Westinghouse Electric Corporation, Concordville, Pennsylvania
Electric Power Research Institute, Palo Alto, California, AP-1623, Vol. 1, 25p., Nov. 1980
Report No.: EPRI AP-1623

0680 41 Article, Combustion

Rate measurements in a laboratory scale pulverized coal combustor
By Thurgood, J.R. / Smoot, L.D. / Hedman, P.O. Brigham-Young University, Provo, Utah
Combust Sci Tech, Vol. 21, No. 5-6, p. 213-223, May 1980

0680 42 Article, Combustion

The effects of calcium chloride on limestone sulfation in fluidized bed coal combustion
By Shearer, J. / Johnson, I. / Turner, C. Argonne National Laboratory, Argonne, Illinois
Thermochim. Acta, Vol. 35, No. 1, p. 105-109, Jan. 1980

0680 43 Article, Combustion

A thermogravimetric study of the sulfation of limestone and dolomite - prediction of pressurized and atmospheric fluidized bed desulfurization
By Ulerich, N.H. / Newby, R.A. / Keairns, D.L. Westinghouse Research and Development Center, Pittsburgh, Pennsylvania
Thermochim Acta, Vol. 36, No. 1, p. 1-16, Jan. 1980

0680 44 Article, Combustion

Optimization of reaction variables of permanganate oxidation of coal
By Banerjee, A.N. Central Fuel Research Institute, Dhanbad, India
Indian J of Tech, Vol. 18, No. 4, p. 153-155, April 1980

0680 45 Article, Combustion

An analytical model for the combustion of coal particles
By Shadman, F. / Cavendish, J.C. General Motors Corporation, Warren, Michigan
Can J Chem Eng, Vol. 58, No. 4, p. 470-475, Aug. 1980

0680 46 Article, Combustion

A comprehensive model for fluidized bed coal combustors
By Rajan, R.R. / Wen, C.Y. West-Virginia University, Morgantown, West-Virginia
AICHE J, Vol. 16, No. 4, p. 642-655, July 1980

0680 47 Article, Combustion

FBC - the next stages
By Edwards, M.J.
Coal Energy Quarterly, No. 24, p. 16-27, 1980

0680 48 Article, Combustion, Environment

Combustion of alternative natural and synthetic fuels
By Reuther, J.L. Pennsylvania State University, University-Park, Pennsylvania
Earth Miner. Sci, Vol. 49, No. 5, p. 49, 57-59, Feb. 1980

0680 49 Article, Combustion, Gasification

Coal devolatilization and elemental release in batch and laminar flow furnace reactors
By Agreda, V.H. / Felder, R.M. / Ferrell, J.K. North-Carolina State University, Raleigh, North-Carolina
Coal Process Tech, Vol. 6, p. 87-101, 1980

0680 50 Article, Combustion

Coal oil water combination shows potential for use as lime kiln fuel
By Rhyne, J.B. / Kerkhof, M.J.
Pulp Paper, Vol. 54, No. 8, p. 137-139, Aug. 1980

0680 51 Article, Combustion

The influence of minerals on the pyrolysis of kerogens
By Horsfield, B. / Douglas, A.G. University of Newcastle-Upon-Tyne, Newcastle-Upon-Tyne, United-Kingdom
Geochim. Cosmochim. Acta., Vol. 44, No. 8, p. 1119-1132, Aug. 1980

0680 52 Article, Combustion, Environment

Fluidized bed boilers gain experience
By Pruce, L.M.
Power, Vol. 124, No. 5, p. 95-97, May 1980

0680 53 Article, Combustion

The sticking temperature and adhesion force of slag droplets from four coals on oxidized mild steel
By Moza, A.K. / Shoji, K. / Austin, L.G. Pennsylvania State University, University-Park, Pennsylvania
J Inst Energy, Vol. 53, No. 414, p. 17-19, March 1980

0680 54 Report, Combustion

Two phase flow and heat transfer in fluidized beds
By Staub, F.W. General Electric Company, Schenectady, New-York
Electric Poower Research Institute, 333p., July 1980
Report No.: EPRI CS-1456

0680 55 Article, Combustion, Gasification

A proposed on line efficiency method for pulverized coal fired boilers
By Roughton, E. Central Electricity Research Laboratories, Leatherhead, United-Kingdom
J Inst Energy, Vol. 53, No. 414, p. 20-24, March 1980

0680 56 Article, Combustion, Beneficiation

Dynamic steam inerting system for a ball tube mill pulverizing subbituminous coal
By DeGabriele, R.M. / Causilla, H. / Henschel, J.P.
Fire Tech, Vol. 16, No. 3, p. 212-226, Aug. 1980

0680 57 Article, Combustion

Studies of a possible mechanism of deflagration during delay round firing in coal
By Kennedy, M. / Kerr, I.D. Explosion and Flame Laboratory, Buxton, United-Kingdom
Propellants and Explosives, Vol. 5, No. 2-3, p. 29-33, May 1980

0680 58 Article, Combustion

Overview of coal activities at the Canadian combustion research laboratory
By Lee, G.K. / Friedrich, F.D. / Whaley, H. / Ogle, I.C. Canada Department of Energy, Mines and Resources, Ottawa, Ontario
CIM Bull, Vol. 73, No. 822, p. 62-64, Oct. 1980

0680 59 Article, Combustion, Environment

Trace element chemistry of coal during combustion and the emissions from coal fired power plants
By Smith, R.D. Battelle Memorial Institute, Richland, Washington
Prog Energy Combust Sci, Vol. 6, No. 1, p. 53-119, 1980

0680 60 Article, Combustion

Laboratory combustibility testing of solid fuel
By Winegartner, E.C. / Lin, C.J. Exxon Research and Engineering Company, Baytown, Texas
J Eng Power, Vol. 102, No. 3, p. 666-671, July 1980

0680 61 Article, Combustion

Description of the DOE coal fired MHD facility (CFFF)
By Dicks, J.B. / Martin, J.F. / Muehlhauser, J.W. / Strom, S.S. University of Tennessee, Tullahoma, Tennessee
United-States Conference Records, p. 81-85, 1980

0680 62 Article, Combustion, Properties

Coal mineral matter and furnace slagging
By Hazard, H.R. / Barrett, R.E. / Dimmer, J.P. Battelle Columbus Laboratories, Columbus, Ohio
Combustion, Vol. 51, No. 10, p. 32-37, April 1980

0680 63 Article, Combustion, Properties

Composition and microstructure of a furnace ash deposit from a coal fired utility boiler
By Fessler, R.R. / Skidmore, A.J. / Hazard, H.R. / Dimmer, J.P. Battelle Columbus Laboratories, Columbus, Ohio
J Eng Power, Vol. 102, No. 3, p. 692-697, July 1980

0680 64 Article, Combustion

Engineering development of molten carbonate fuel cell power plants
By Degan, L.J. General Electric Company, Schenectady, New-York
United-States Conference Records, p. 154-159, 1980

0680 65 Article, Combustion

Burnout rates of brown coal char particles in fluidized bed combustors
By Stanmore, B.R. / Jung, K. University of Melbourne, Parkville, Australia
Trans, Inst Chem Eng, Vol. 58, No. 1, p. 66-68, Jan. 1980

0680 66 Article, Combustion

The temperature of coke particles in a fluidised combustor
By Roscoe, J.C. / Witkowski, A.R. / Harrison, D. University of Cambridge, Cambridge, United-Kingdom
Trans, Inst Chem Eng, Vol. 58, No. 1, p. 69-72, Jan. 1980

0680 67 Article, Combustion

Combustion of western coal
By Lundberg, R.M. Commonwealth Edison Company, Chicago, Illinois
Coal Process Tech, Vol. 6, p. 46-51, 1980

0680 68 Article, Combustion

Measuring combustion inefficiency based on the solid effluents from a combustor burning coal with limestone
By Patch, R.W. / Savage, K.I. Lewis Research Center, National Aeronautics and Space Administration, Cleveland, Ohio
Combust Science Tech, Vol. 23, No. 5-6, p. 257-261, 1980

0680 69 Article, Combustion

Combustion of low quality coals in fluidized bed steam generators
By Mesko, J.E. Pope, Evans and Robbins, Inc., New-York, New-York
Natural Resources Forum, Vol. 4, No. 3, p. 265-275, July 1980

0680 70 Conference proceedings, Combustion

High sulfur fuel combustion in a circulating bed
By Yip, H. / Rickman, W.S. / Engstrom, F. Pyropower Corporation, San-Diego, California
Third International Coal Utilization Exhibition and Conference, Vol. 6, p. 698-714, Nov. 1980

0680 71 Conference proceedings, Combustion

Circulating fluidized bed boiler
By Fraley, L.D. / Do, L.N. / Hsiao, K.H. Pullman Kellogg Company, Houston, Texas
Third International Coal Utilization Exhibition and Conference, Vol. 6, p. 716-722, Nov. 1980

0680 72 Conference proceedings, Combustion

COM and fluidized bed boiler commercialization accelerated by their marriage
By George, T.J. / Claypoole, G.T. Pope, Evans and Robbins, Inc., Fairmont, West-Virginia
Third International Coal Utilization Exhibition and Conference, Vol. 6, p. 737-742, Nov. 1980

0680 73 Report, Combustion

Atmospheric fluidized bed combustor
By Wesley, D.P. / Cunningham, R.D. University of Kentucky, Lexington, Kentucky
U. of Kentucky, Inst. Mining & Minerals, Annual Report 1979-80, p. 3-1, 3-2, 1980
Report No.: IMMR80/055

0680 74 Report, Combustion

Carbonate sulfur sorbent studies
By Robl, T. / Wesley, D.P. / Barron, L. / Maples, S. / Hasler, J. / Dever, G. / Moody, J.D. / Yu, Y.S. University of Kentucky, Lexington, Kentucky
U. of Kentucky, Inst. Mining & Minerals, Annual Report 1979-80, p. 3-2, 3-3, 1980
Report No.: IMMR80/055

0680 75 Report, Combustion

Materials testing for AFBC
By Ganesan, P. / Johnson, T. / Furman, R. / Sherman, S. / Sagues, A. / Sargent, G. University of Kentucky, Lexington, Kentucky
U. of Kentucky, Inst. Mining & Minerals, Annual Report 1979-80, p. 3-4, 3-5, 1980
Report No.: IMMR80/055

0680 76 Report, Combustion

Corrosion in gaseous media
By Ganesan, P. / Sagues, A, / Furman, R. University of Kentucky, Lexington, Kentucky
U. of Kentucky, Inst. Mining & Minerals, Annual Report 1979-80, p. 3-5, 3-6, 1980
Report No.: IMMR80/055

0680 77 Report, Combustion

AFBC pneumatic splitter feeder system
By Watters, J.C. / Cunningham, R.D. University of Kentucky, Lexington, Kentucky
U. of Kentucky, Inst. Mining & Minerals, Annual Report 1979-80, p. 3-6, 3-7, 1980
Report No.: IMMR80/055

0680 78 Report, Combustion

Methanol gasoline blend fuel test program
By Stewart, O.W. University of Kentucky, Lexington, Kentucky
U. of Kentucky, Inst. Mining & Minerals, Annual Report 1979-80, p. 3-9, 3-10, 3-11, 1980
Report No.: IMMR80/055

0680 79 Report, Combustion

Optical pyrometer measurement of particle and gas temperatures
By Altenkirch, R.A. University of Kentucky, Lexington, Kentucky
U. of Kentucky, Inst. Mining & Minerals, Annual Report 1979-80, p. 3-13, 3-14, 1980
Report No.: IMMR80/055

0680 80 Report, Combustion

Chlorine in Kentucky coal
By Kuhn, J. / Lloyd, W. / Shalvoy, R. / Freeman, G. / Francis, H. University of Kentucky, Lexington, Kentucky
U. of Kentucky, Inst. Mining & Minerals, Annual Report 1979-80, p. 4-5, 4-6, 1980
Report No.: IMMR80/055

0680 81 Report, Combustion

Systems Analysis
By Adibhatla, S. University of Kentucky, Lexington, Kentucky
U. of Kentucky, Inst. Mining & Minerals, Annual Report 1979-80, p. 3-8, 3-9, 1980
Report No.: IMMR80/055

0680 82 Report, Combustion

Application test burn of an emulsified coal/oil/water mixture
By Plank, C.A. / Murray, T.M. University of Kentucky, Lexington, Kentucky
U. of Kentucky, Inst. Mining & Minerals, Annual Report 1979-80, p. 3-9, 1980
Report No.: IMMR80/055

0680 83 Article, Combustion, Environment

Respirable aerosols from fluidized bed coal combustion - 1. Sampling methodology for an 18 inch experimental fluidized bed coal combustor

By Newton, G.J. / Carpenter, R.L. / Yeh, H.C. / Peele, E.R. Lovelace Biomedical and Environmental Research Institute, Albuquerque, New-Mexico
Environ Sci Tech, Vol. 14, No. 7, p. 849-853, July 1980

0680 84 Article, Combustion, Environment

Respirable aerosols from fluidized bed coal combustion - 2. Physical characteristics of fly ash
By Carpenter, R.L. / Newton, G.J. / Rothenberg, S.J. / Denee, P.B. Lovelace Biomedical and Environmental Research Institute, Albuquerque, New-Mexico
Environ Sci Tech, Vol. 14, No. 7, p. 854-859, July 1980

0680 85 Article, Combustion, Environment

Experimental study of low NO//x fluidized bed combustor development - 2. Performance of two stage fluidized bed combustion
By Hirama, T. / Tomita, M. / Adachi, T. / Horio, M. Government Industrial Development Laboratory, Hokkaido, Sapporo, Japan
Environ Sci Tech, Vol. 14, No. 8, p. 960-965, Aug. 1980

0680 86 Conference proceedings, Combustion

Power plant cycle selection: A case study
By Luther, R.B. Rust Engineering Company, Birmingham, Alabama
TAPPI, Annual Meeting Tech. Assoc. Pulp and Paper Industry, Atlanta, Ga., Feb. 24-27, 1980, Feb. 1980

0680 87 Report, Combustion, Beneficiation

Partial replacement of coke in cupola operation
By Spironello, V.R. / Mahan, W.M. Twin-Cities Mining Research Center, Twin-Cities, Minnesota
United-States Bureau of Mines, 23p., 1980
Report No.: RI 8488

0680 90 Article, Combustion, Environment

Coal combustion fly ash characterization: Adsorption of nitrogen and water
By Rothenberg, S.J.
Atmos. Environ., Vol. 14, No. 4, p. 445-456, 1980

0680 91 Article, Combustion, Energy Policy

Coal heats homes as oil prices rise
By Sullivan, A.M.
Coal Age, Vol. 85, No. 8, p. 71-74, Aug. 1980

0680 92 Article, Combustion

Combined cycles: To day and to morrow
By Harkins, H.L. Power Systems Engineering Incorporated, Houston, Texas
Hydrocarbon Process, Vol. 59, No. 7, p. 73-76, July 1980

0680 93 Report, Combustion

Materials problems in fluidized bed combustion systems - Review of the information on gas turbine materials in coal combustion environments
By McCarron, R.L. / Grey, D.A. General Electric Company, Schenectady, New-York
Electric Power Research Institute, 183p., Aug. 1980
Report No.: EPRI CS-1469

0680 94 Article, Combustion, Environment

Coal burning issues: Atmospheric modifications
By Taylor, K.E. / Chameides, W.L. / Green, A.E. University of Florida, Gainesville, Florida
University of Florida, p. 203-230, 1980

0680 95 Patent, Combustion

A method of heat treating a material
By Randell, A.A. / Hodgkinson, N.
Assignee: A.A. Randell, N. Hodgkinson, April,1980, 4p., F23G 7/00, C04B31/0, Patent: England, 1 565 726, May 1977, Appl. 19056/77, April 1980
Report No.: p. 1 565 726

0680 96 Patent, Combustion

Catalytic iron oxide for lime regeneration in carbonaceous fuel combustion
By Shen, M.S. / Yang,.R.T. United-States Department of Energy, Washington, District-of-Columbia
Assignee: The United-States of America as represented by the United-States Department of Energy, Sept. 1980, 8p., 423/638, C01B13/14, Patent: United-States, 4 225 572, Sept. 1978, Appl. 947664, Sept. 1980
Report No.: p. 4 225 572

0680 97 Patent, Combustion, Beneficiation, Liquefaction

Composition comprising a pulverized purified substance, water and a dispersing agent, and a method for preparing the composition
By Siwersson, O.L. / Wall, A.E. / Loodberg, J.A. AB Scanlainventor, Helsingborg, Sweden
Assignee: AB Scanlainventor, August 1980, 6p., 44/1SR, C10L9/10, Patent: United-States, 4 217 109, May 1978, Appl. 908 497, Aug. 1980
Report No.: p. 4217109

0680 98 Book, Combustion

DOE cost comparison study: industrial fluidized bed combustion vs. conventional coal technology
By Myrick, D.T. Combustion Engineering, Inc., Windsor, Connecticut
United-States Department of Commerce, 43p., Jan. 1980
Report No.: FE-2473-T7

0680 99 Patent, Combustion

Method of reducing deterioration of electric furnace refractory metal components
By Elmo, L. Johns-Manville Corporation, Denver, Colorado
Assignee: Johns-Manville Corporation, June 1980, 8p., C03C13/00, Patent: England, 1 568 651, Jan. 1978, Appl. 2159/78, June 1980
Report No.: p. 1 568 651

0680 100 Patent, Combustion, Beneficiation

Method of production of cellular concrete
By Siejko, J. / Jatymowicz, H. Centralny Osrodek Badawczo-Rozwojowy Przemyslu Betonow 'Cebet', Warsaw, Poland
Assignee: Centralny Osrodek Badawczo-Rozwojowy Przemyslu Betonow 'Cebet', July 1980, 2p., 106/87, C04B21/02, Patent: United-States, 4 214 911, June 1978, Appl. 920 118, July 1980
Report No.: p. 4 214 911

0680 101 Patent, Combustion

Method and apparatus for retorting a substance containing organic matter
By Schulman, B.L. Tosco Corporation, Los-Angeles, California
Assignee: Tosco Corporation, July 1980, 11p., 201/2.5, C10B1/10, Patent: United-States, 4 210 491, Oct. 1978, Appl. 951 723, July 1980
Report No.: p. 4 210 491

0680 103 Patent, Combustion, Gasification

Fluidized bed apparatus and process
By Victor, J.G. Institute of Gas Technology, Chicago, Illinois
Assignee: Institute of Gas Technology, Oct. 1980, 10p., 209/474, B07B4/08, Patent: United-States, 4 229 289, March 1979, Appl. 19 441, Oct. 1980
Report No.: p. 4 229 289

0680 104 Patent, Combustion

Method for regenerating calcium sulfoxy compounds produced in the combustion of carbonaceous fuels in fluidized beds
By Clark, W.E. Continental Oil Company, Stamford, Connecticut
Assignee: Continental Oil Company, May 1980, 6p., C10B17/02, Patent: United-States, 4 201 759, Dec. 1978, Appl. 966 544, May 1980
Report No.: p. 4 201 759

0680 105 Article, Combustion

Development progress on the atmospheric fluidized bed coal combustor for cogeneration gas turbine system for industrial cogeneration plants
By Holcomb, R.S. Oak-Ridge National Laboratory, Oak-Ridge, Tennessee
J Eng Power, Vol. 102, No. 2, p. 292-296, April 1980

0680 106 Article, Combustion, Environment

Emission control for industrial coal fired boilers
By Dimitry, P. / Gambhir, S.P. / Heil, T.J.
Combustion, Vol. 51, No. 7, p. 32-41, Jan. 1980

0680 107 Article, Combustion

An experimental study for low NO//x fluidized bed coal combustor development. 1. Combustion under substoichiometric conditions
By Hirama, T. / Tomita, M. / Adachi, T. / Yamaguchi, H. Government Industrial Development Laboratory, Hokkaido, Sapporo, Japan
Environ Sci Tech, Vol. 14, No. 8, p. 955-960, Aug. 1980

0680 108 Article, Combustion, Mining

How to get more blast, less bang
By Chrionis, N.P.
Coal Age, Vol. 85, No. 6, p. 73-79, June 1980

0680 109 Patent, Combustion, Environment

Regenation of lime from sulfates for fluidized bed combustion
By Yang, R.T. / Steinberg, M. United-States Department of Energy, Washington, District-of-Columbia
Assignee: Department of Energy, April 1980, 14p., 423/638, C01B13/14, Patent: United-States, 4 197 285, Dec. 1977, Appl. 858 221, April 1980
Report No.: p. 4 197 285

0680 110 Patent, Combustion, Beneficiation

Prevention of defluidization in the treatment of coking carbonaceous solids
By Liss, B. / Welter, C.R.
Assignee: B. Liss and C. R. Welter, South-Charleston, West-Virginia, 13p., 201/9, C10B57/08, Patent: United-States, 4 200 495, Sept. 1978, Appl. 943 460, April 1980
Report No.: p. 4 200 495

0680 111 Patent, Combustion, Environment

Method for No//x removal from stack gases
By Yan, T.Y. Mobil Oil Corporation, New-York, New-York
Assignee: Mobile Oil Corporation, Aug. 1980, 7p., 423/239, B01D53/34, Patent: United-States, 4 218 427, April 1979, Appl. 32 207, Aug. 1980
Report No.: p. 4 218 427

0680 112 Patent, Combustion, Beneficiation, Environment

Process for reducing the sulfur content of coal
By Simpson, C.H.
Assignee: C.H. Simpson, Scottsdale, Arizona, May 1980, 6p., 44/1 SR, C10L9/10, Patent: United-States, 4 203 727, Nov. 1978, Appl. 964 742, May 1980
Report No.: p. 4 203 727

0680 113 Patent, Combustion, Environment

Process for reducing sulfur contaminant emissions from burning coal or lignite that contains sulfur
By Smith, R.H. Atlantic Richfield Company, Los-Angeles, California
Assignee: Atlantic Richfield Company, Oct. 1980, 6p., 44/10D, C10L9/10, Patent: United-States, 4 226 601, Jan. 1977, Appl. 756 195, Oct. 1980
Report No.: p. 4 226 601

0680 114 Article, Combustion, Environment

Fireside additive trials in utility boilers - overview of an EPRI survey
By Locklin, D.W. / Krause, H.H. / Reid, W.T. / Anson, D. / Dimmer, J.P. Battelle Columbus Laboratories, Columbus, Ohio
Combustion, Vol. 51, No. 8, p 26-33, 1980

0680 115 Article, Combustion, Environment

Flue gas desulfurization. Developments in particulate control for coal fired power plants
By Drehmel, D.C. United-States Environmental Protection Agency, Research-Triangle-Park, North-Carolina
Chem Eng Prog, Vol. 76, No. 5, p. 74-75, 1980

0680 116 Article, Combustion, Properties

Effect of coal thermal decomposition conditions on the nature of hydrogen sulfide formation
By Gadyatskii, V.G. / Didenko, V.E. / Papchenko, V.A.
Coke Chem (USSR) No. 1, p. 10-13, 1980

0680 117 Article, Combustion, Environment

Determination of Al//20//3 in the ashes and slags from solid fuels by differential photometry

By Novitskii, N.V. / Ivanova, N.I.
Solid Fuel Chem, Vol. 14, No. 1, p. 75-78, 1980

0680 118 Article, Combustion, Properties

Features of the evolution of hydrogen sulfide in the thermal decomposition of hard coals of different ranks
By Gadyatskii, V.G. / Didenko, V.E. / Panchenko, V.A. / Gnezdilov, O.V.
Solid Fuel Chem, Vol. 14, No. 1, p. 14-16, 1980

0680 119 Article, Combustion, Environment

Improved coal combustion through chemical treatment
By Oschell, F.J. / Boccuzzi, E.J. Drew Chemical Corporation, Bonton, New-Jersey
Combustion, Vol. 52, No. 6, p. 32-35, Dec. 1980

0680 120 Book, Combustion

Mathematical modelling of fluidised bed combustors
By Olofsson, J. Chalmers University of Technology, Sweden
IEA Coal Research, London, England, 100p., Nov. 1980
Report No.: ICTIS/TR14

0680 121 German Article, Combustion, Properties, Environment

Origins of the trace elements zinc, cadmium and vanadium in bituminous coal and their behavior during combustion/die herkunft der spurenelemente zink, cadmium und vanadium in steinkohl en und ihr verhalten bei der verbrennung
By Kirsch, V.H. / Schirmer, U. / Schwarz, G. Tech ver der Grosskraftwerksbetr, Essen, Germany
VGB Kraftwerkstech, Vol. 60, No. 10, p. 814-824, Oct. 1980

0680 122 Article, Combustion, Liquefaction

Oxidative rapid pyrolysis of coal in a dilute phase transport reactor
By Sitnai, O. / McCarthy, D.J. Commonwealth Scientific and Industrial Research Organization, Victoria, Australia
Ind Eng Chem Process Des Dev, Vol. 19, No. 4, p. 641-646, Oct. 1980

0680 123 Article, Combustion

A proposed on line efficiency method for pulverized coal fired boilers
By Roughton, J.E. Central Electricity Research Laboratories, Leatherhead, United-Kingdom
J Inst Energy, Vol. 53, No. 414, p. 20-24, March 1980

0680 124 Book, Combustion, Liquefaction, Energy Policy

Performance of a diesel engine operating on raw coal diesel fuel and solvent refined coal diesel fuel slurries
By Marshall, H.P. Virginia Polytechnic Institute and State University, Blacksburg, Virginia
United-States Department of Energy, 129p., 1980
Report No.: CONS-3288-T6

0680 125 Article, Combustion, Environment

Removal of gaseous alkali metal compounds from hot flue gas by particulate sorbents
By Lee, S.H. / Johnson, I. Argonne National Laboratory, Argonne, Illinois
J Eng Power, Vol. 102, No. 2, p. 397-402, 1980

0680 126 Article, Combustion, Environment

Some etching studies of the microstructure and composition of large aluminosilicate particles in fly ash from coal burning power plants
By Hulett, L.D. / Weinberger, A.J. Oak-Ridge National Laboratory, Oak-Ridge, Tennessee
Environ Sci Tech, Vol. 14, No. 8, p. 965-970, Aug. 1980

0680 127 Article, Combustion

Study of initial oxidation processes in bituminous coals and anthracites by manometric methods
By Ivanov, S.K. / Rouschev, D.D. / Markova, K.I. Bulgarian Academy of Sciences, Sofia, Bulgaria
Fuel, Vol. 59, No. 4, p. 273-274, 1980

0680 128 Article, Combustion, Mining

Shock tube techniques in the study of pulverized coal ignition and burnout
By Seeker, W.R. / Lester, T.W. / Merklin, J.F. Kansas State University, Manhattan, Kansas
Rev Sci Instrum, Vol. 51, No. 11, p. 1523-1531, Nov. 1980

0680 129 Article, Combustion

Two wavelength laser transmissometer for measurements of the mean size and contraction of coal ash droplets in combustion flows
By Ariessohn, P.C. / Self, S.A. / Eustis, R.H. Stanford University, Stanford, California
Appl Opt, Vol. 19, No. 22, p. 3775-3781, Nov. 1980

0680 130 Article, Combustion, Environment

The electrification of operating powder chemical fire extinguishers
By Collocott, S.J. / Morgan, V.T. / Morrow, R. CSIRO, Minerals Research Laboratories, North-Ryde, Australia
J Electrost, Vol. 9, No. 2, p 191-196, 1980

0680 131 Article, Combustion

Combustion problems associated with high chlorine coals
By Bettelheim, J. / Halstead, W.D. / Lees, D.J. / Mortimer, D. Central Electricity Research Laboratories, Leatherhead, United-Kingdom
Erdoel Kohle, Erdgas, Petrochem, Vol. 33, No. 9, p. 436, 1980

0680 132 Article, Combustion

The comparative characterization of the organic substance of the combustible shale and brown coal of the Novodmitrovskoe deposit of the Ukrainian SSR
By Urov, K.E. / Listrem, A.I.
Solid Fuel Chem, Vol. 14, No. 1, p. 79-84, 1980

0680 133 Article, Combustion

Evaluation of kinetic parameters of coal ignition
By Karcz, H. / Kordylewski, W. / Rybak, W. Technical University of Wroclaw, Wroclaw, Poland
Fuel, Vol. 59, No. 11, p. 799-802, Nov. 1980

0680 134 Article, Combustion, Environment

Laboratory studies of submicron particles from coal combustion
By Flagan, R.C. / Taylor, D.D. California Institute of Technology, Pasadena, California
Symp (Int) Combust (Proc), Vol. 18, p 1227-1237, 1981

0680 135 Article, Combustion, Gasification, Liquefaction

Modeling the devolatilization behavior of a softening bituminous coal
By Unger, P.E. / Suuberg, E.M. Carnegie-Mellon University, Pittsburgh, Pennsylvania
Symp (Int) Combust (Proc), Vol. 18, p. 1203-1211, 1981

0680 136 Report, Combustion

Improved PFB operations: 400 hour turbine test results
By Rollbuhler, R.J. / Benford, S.M. / Zellars, G.R. Lewis Research Center, National Aeronautics and Space Administration, Cleveland, Ohio
NASA Tech Memo, No. NASA-TM-81511, E-260, 23p., 1980
Report No.: NASA-TM-81511

0680 137 Article, Combustion

Reliability analysis of a fluidized bed boiler for a coal fueled power plant
By Woo, T.G. Stone & Webster Engineering Corporation, Boston, Massachusetts
IEEE Trans Reliab, Vol. R-29, No. 5, p. 422-424, Dec. 1980

0680 138 Patent, Combustion

Improvements in or relating to fluidised bed combustion
By Cooke, M.J. / Hodgkinson, N. Coal Industry (Patents) Limited, London, United-Kingdom
Assignee: Coal Industry (Patents) Limited, Dec. 1980, 4p., C04B31/00, Patent: England, 1 581 672, May 1977, Appl. 21 318/77, Dec. 1980
Report No.: p. 1 581 672

0680 139 Patent, Combustion

Method for enhancing the utilization of powdered coal
By Maust, E.E. Edwin E. Maust, St. Laurel, Maryland
Assignee: Edwin E. Maust, Oct. 1980, 6p., 44/16C, C10L5/12, Patent: United-States, 4 230 460, Oct. 1978, Appl. 956 287, Oct. 1980
Report No.: p. 4 230 460

0680 140 Article, Combustion

Coal fired cycling operation at Illinois Power's Havana Station
By Rosenberger, F.E. / Langley, D.C. Illinois Power Company, Havana, Illinois
Proc Am Power Conf, Vol. 42, p. 49-60, 1980

0680 141 Article, Combustion, Environment

Chemical affiliation of trace metals in coal ash
By Wu, E.J. / Choi, W.W. / Chen, K.Y. University of Southern California, Los-Angeles, California
AIChE, Vol. 76, No. 201, p. 177-187, 1979

0680 142 Article, Combustion, Environment

Volatility of selected minor and trace elements in the low temperature ash of an Illinois Herrin No. 6 coal
By Lee, S.H. / Johnson, I. / Fischer, J. Argonne National Laboratory, Argonne, Illinois
Fuel, Vol. 59, No. 11, p. 816-819, 1980

0680 143 Article, Combustion, Environment

Control of emissions from the pressurized fluidized bed combustion of coal
By Hoke, R.C. / Ruth, L.A. / Ernst, M. Exxon Research and Engineering Company, Linden, New-Jersey
AIChE Symp Serv, Vol. 76, No. 201, p. 16-22, 1980

0680 144 Report, Combustion

Recent coal oil mixture combustion tests at PETC
By Pan, Y.S. / Bellas, G.T. / Mathur, m.P. / Joubert, J.I. / Bienstock, D. United-States Department of Energy, Pittsburgh, Pennsylvania
Pittsburgh Energy Technology Center, 36p., June 1980
Report No.: DOE/PETC/TR-80/5

0680 145 Report, Combustion

Industrial application of fluidized bed combustion - Quarterly Technical Progress Report, for the period October December, 1980
Georgetown University, Washington, District-of-Columbia
United-States Department of Energy, Morgantown, West-Virginia, 1980
Report No.: DOE/ET/10381-150

0680 146 Report, Combustion, Environment

Field tests of industrial stoker coal fired boilers for emissions control and efficiency improvement - Site G, Data Supplement
By Burlingame, J.O. / Parker, R.A. / Crockett, B. / Jackson, W.M. / Demont, J.D. KVB, Inc., Minneapolis, Minnesota
United-States Environmental Protection Agency, 257p., April 1980
Report No.: EPA-600/7-80-082b

0680 147 Report, Combustion, Environment

Field tests of industrial stoker coal fired boilers for emissions control and efficiency improvement - Site E
By Langsjoen, P.L. / Burlingame, J.O. / Gabrielson, J.E. KVB, Inc., Minneapolis, Minnesota
United-States Environmental Protection Agency, 90p., March 1980
Report No.: EPA-600/7-80-064a

0680 148 Report, Combustion

Study of Seed Reprocessing systems for coal fired open cycle coal fired MHD power plants: Task I, Selection of processes for more detailed study
By Sheth, A. Babcock & Wilcox Company, Alliance, Ohio
United-States Department of Energy, 63p., 1980
Report No.: DOE/ET/15613-T1

0680 149 Article, Combustion, Environment

Technical and economic assessment of NO//x flue gas treatment technology
By Jones, G.D. / Mobley, J.D. United-States Environmental Protection Agency, Research-Triangle-Park, North-Carolina
AIChE Symp Ser, Vol. 76, No. 201, p. 50-59, 1980

0680 150 Report, Combustion

Design, construction, operation and evaluation of a prototype culm combustion boiler/heater unit
Curtiss-Wright Corporation, Wood-Ridge, New-Jersey
The United-States Department of Energy, 48p., Oct. 1980
Report No.: DE-AC21-78ET 12307

0680 151 Report, Combustion

Fly ash reinjection test program - Final report
Pope, Evans and Robbins, Inc., Alexandria, Virginia
United-States Department of Energy, 50p., April 1980
Report No.: USGPO - 758-165/89

0680 152 Report, Combustion

Technical planning study - Pressurized fluidized bed combustion
By Robert, R. General Electric Company, Schenectady, New-York
Electric Power Research Institute, 200p., 1980
Report No.: EPRI CS-1465

0680 153 Report, Combustion, Environment

Process costs and flowsheets, bed defluidization characteristics, stone reactivity changes and attrition losses for a regenerative fluidized bed combustion process
By Swift, W.M. / Montagna, J.C. / Smith, G.W. / Smyk, E.B. Argonne National Laboratory, Argonne, Illinois
United-States Department of Energy. 104p., May 1980
Report No.: ANL/CEN/FE-78-14

0680 154 Report, Combustion

PFB coal fired combined cycle development program - Commercial plant requirements definition update (Task 1.1)
General Electric Company, Schenectady, New-York
United-States Department of Energy, 134p., May 1980
Report No.: FE-2357-71

0680 155 Report, Combustion, Environment

Assessment of energy and economic impacts of particulate control technologies in coal fired power generation
Argonne National Laboratory, Argonne, Illinois
United-States Department of Commerce, 249p., April 1980

0680 156 Report, Combustion, Environment

Evolution of particulate emissions from a coal fired power plant - dissertation
By Buckholtz, H.T. Lawrence Livermore Laboratory, University of California, Livermore, California
Lawrence Livermore Laboratory, 179p., 1980

Report No.: UCRL-52989

0680 157 Report, Combustion

High temperature chlorination of coal fly ash
By Adelman, D.J. Ames Laboratory, Ames, Iowa
United-States Department of Energy, 113p., 1980
Report No.: IS-T-924

0680 158 Report, Combustion

Simulation of cold flow in agglomerating reactors, JAYCOR Topical report No. 1
By Scharff, M.F. / Klein, H.H. / Chan, R.K. / Dietrich, D.E. / Goldman, S.R. / Sperling, J.L. JAYCOR, Del-Mar, California
United-States Department of Energy, 38p., 1980
Report No.: FE-3195-08

0680 159 Report, Combustion

PFB coal fired combined cycle development program, gas turbine materials evaluation report
General Electric Company, Schenectady, New-York
United-States Department of Energy, 125p., Sept. 1980
Report No.: FE-2357-67

0680 160 Report, Combustion, Liquefaction

Performance tests of a slow speed, two stroke diesel engine using coal based fuels
By Dunlay, J.B. / Davis, J.P. / Steiger, H.A. / Eberle, M.K. Thermo Electron Corporation, Waltham, Massachusetts
United-States Department of Energy, 52p., June 1980
Report No.: TE-7905-267-80

0680 161 Report, Combustion

Thirty day field tests of industrial boilers site 4 coal fired spreader stoker
By Carter, W.A. / Hart, J.R. KVB, Inc., Irvine, California
United-States Environmental Protection Agency, 178p., April 1980
Report No.: EPA-600/7-80-085d

0680 162 Report, Combustion, Environment

Field tests of industrial stoker coal fired boilers for emissions control and efficiency improvement - Site I (data supplement)
By Burlingame, J.O. / Parker, R.A. / Cook, J.E. / Jackson, W.M. / Demont, J.D. KVB, Inc., Minneapolis, Minnesota
United-States Environmental Protection Agency, 122p., May 1980
Report No.: EPA-600/7-80-136b

0680 163 Report, Combustion, Environment

Field tests of industrial stoker coal fired boilers for emissions control and efficiency improvement - Site E (data supplement)
By Burlingame, J.O. / Parker, R.A. / Jackson, W.M. / Demont, J.D. KVB, Inc., Minneapolis; Minnesota
United-States Environmental Protection Agency, 255p., April 1980
Report No.: EPA-600/7-80-064B

0680 164 Article, Combustion

An investigation of water leaching of some British coals
By Bettelheim, J. / Hann, W.W. Central Electricity Research Laboratories, Leatherhead, United-Kingdom
J Inst Energy, Vol. 53, No. 416, p. 103-108, Sept. 1980

0680 166 Report, Combustion, Environment

Thirty day field tests of industrial boilers: Site 3 pulverized coal fired boiler
By Carter, W.A. / Buening, H.J. KVB, Inc., Irvine, California
EPA, Office of Research and Development, 159p., April 1980
Report No.: EPA-600/7-80-085c

0680 167 Report, Combustion, Environment

Source assessment: dry bottom utility boilers firing pulverized bituminous coal
By DeAngelis, D.G. / Reznik, R.B. / Ruffin, D.S. / Rigano, J.N. / McCurley, W.R. / Ochsner, J.C. / Hughes, T.W.
Monsanto Research Corporation, Dayton, Ohio
EPA, Office of Research and Development, 210p., Oct. 1980
Report No.: IERL-RTP-1104

0680 168 Report, Combustion

Industrial application fluidized bed combustion - indirect fired process heaters, final program report
Exxon Research and Engineering Company, Florham-Park, New-Jersey
United-States Department of Energy, 130p., 1980
Report No.: USGPO - 758-158/90

0680 169 Report, Combustion

Industrial application of fluidized bed combustion - Quarterly technical progress report for the period January March, 1980
Georgetown University, Washington, District-of-Columbia
United-States Department of Energy, 42p., 1980
Report No.: DE-AC21-76E10381

0680 170 Report, Combustion, Environment

Factors affecting cleanup of exhaust gases from a pressurized, fluidized bed coal combustor
By Rollbuhler, R.J. / Kobak, J.A. Lewis Research Center, National Aeronautics and Space Administration, Cleveland, Ohio
Sci Tech Aerosp, Vol. 18, No. 11, 37p., 1980
Report No.: NASA-TM-81439

0680 171 Patent, Combustion, Beneficiation

Coke Furnace Charging coal
By Kellerwessel, H. Kloeckner-Humboldt-Deutz, Koln, Germany
Assignee: Kloeckner-Humboldt-Deutz, Dec. 1980, 15p., C10L, B30B, Patent: South-Africa, 80 011447, Feb. 1980, Appl. 3006853, Dec. 1980

0680 172 Patent, Combustion, Beneficiation

Process for agglomerating finely divided carbonaceous solids
By Dudt, P.J. Continental Oil Company, Stamford, Connecticut
Assignee: Continental Oil Company, Dec. 1980, 5p., 264/117, B01J2/06, Patent: United-States, 4 239 718, April 1979, Appl. 31 250, Dec. 1980

0680 173 Patent, Combustion

Process for producing methane from gas streams containing carbon monoxide and hydrogen
By Frost, A.C. Union Carbide Corporation, New-York, New-York
Assignee: Union Carbide Corporation, Dec. 1980, 12p., 48/197R, C10K3/04, Patent: United-States, 4 242 105, Oct. 1979, Appl. 83 473, Dec. 1980

0680 174 Patent, Combustion, Beneficiation

Gas cycle fluid energy process for forming coal in oil mixtures
By Cochran, J.W. 546 :towads:towards: a ComCo., Pittsburgh, Pennsylanvia
Assignee: ComCo., Dec. 1980, 4p., 44/51, C10L1/32, Patent: United-States, 4 239 496, Dec. 1978, Appl. 966 780, Dec. 1980

0680 175 Article, Combustion, Properties

Features of the quantitative analysis of the volatile products liberated on the heating of coals using the mass spectrometric method
By Kekin, N.A. / Vodolazhchenko, V.V. / Shaml'mo, V.M.
Solid Fuel Chem, Vol. 14, No. 2, p. 22-27, 1980

0680 176 Article, Combustion, Environment

Flue gas treatment system for coal fired power plants

By Mori, A. / Yamada, H. / Kuroda, H.
Hitachi Rev., Vol. 29, No. 6, p. 303-306, 1980

0680 177 Report, Combustion, Beneficiation, Energy Policy

Assessment of the potential of colloidal fuels in future energy usage - final report
Battelle Columbus Laboratories, Columbus, Ohio
United-States Department of Energy, 108p., 1980
Report No.: DOE/ER-10062-T1

0680 178 Article, Combustion, Environment

Laboratory studies of mineral matter vaporization during coal combustion
By Mims, C.A. / Neville, M. / Quann, R.J. / House, K. / Sarofim, A.F. Massachusetts Institute of Technology, Cambridge, Massachusetts
AIChE Symp Ser, Vol. 76, No. 201, p. 188-194, 1980

0680 179 Article, Combustion

Transient behaviour of a fluidized bed coal combustor in a slumped condition
By Garbett, E.S. / B-Nigassa, M. / Hedley, A.B. University of Sheffield, Sheffield, United-Kingdom
J Inst Energy, Vol. 53, No. 417, p. 205-208, Dec. 1980

0680 180 Article, Combustion, Gasification

The role of coal volatiles in fluidized bed combustion
By Stubington, J.F. University of New-South-Wales, Sydney, Australia
J Inst Energy, Vol. 53, No. 417, p. 191-195, 1980

0680 181 Article, Combustion, Properties

Semiconductor properties of solid combustible materials
By Patrushev, S.G. / Kamneva, A.I. / Galaktionov, S.S. / Aleksandrov, I.V.
Solid Fuel Chem, Vol. 14, No. 2, p. 55-59, 1980

0680 182 Article, Combustion

Calcination of bauxite pisolites and phosphate rock using a coal fired fluidized bed
By Jenkins, D.H. / Sinha, H.N. / Walker, W.M. CSIRO, Division of Mineral Engineering, Victoria, Australia
J Inst Energy, Vol. 53, No. 417, p. 176-180, Dec. 1980

0680 183 Article, Combustion

New large capacity coal fired boiler
By Koda, F. / Nara, Y.
Hitachi Rev, Vol. 29, No. 6, p. 283-288, Dec. 1980

0680 184 Article, Combustion

Observations of the low temperature (400 to 910 Degree F) corrosion/erosion behavior of selected alloys in an atmospheric pressure fluidized bed coal combustor
By Wright, I.G. / Krause, H.H. / Carlton, H.E. Battelle Columbus Laboratories, Columbus, Ohio
J Mater Energy Syst, Vol. 2, No. 3, p. 33-48, 1980

0680 185 Article, Combustion, Environment

Quartz, sulphates and trace elements in PF ash
By Raask, E. Central Electricity Research Laboratories, Leatherhead, United-Kingdom
J Inst Energy, Vol. 53, No. 415, p. 70-75, June 1980

0680 186 Article, Combustion

Digital control system for coal fired power plants
By Iioka, M. / Hodotsuka, K. / Nigawara, S. / Sato, Y.
Hitachi Rev, Vol. 29, No. 6, p. 313-316, Dec. 1980

0680 187 Conference proceedings, Combustion

Near term commiercialization of MHD power generation using coal/oil fuel
By Murthy, M.L. / Cutting, J.C. / Trzaskoma, W.P. / Manaker, A. Gilbert/Commonwealth, Reading, Pennsylvania
Proc Intersoc Energy Conversion Engineering Conf, 15th, Vol. 1, Seattle, Washington, Aug. 18/20, 1980, 1980

0680 188 Conference proceedings, Combustion

Outlining application of coal/oil mixtures
By Claypoole, G.T. / Kracun, D. Pope, Evans and Robbins, Inc., New-York, New-York
Proc Intersoc Energy Conversion Engineering Conf, 15th, Vol. 1, Seattle, Washington, Aug. 18/20, 1980, 1980

0680 189 Conference proceedings, Combustion

Design and operation of fluidized bed industrial boilers and hot gas producers
By Highley, J. / Kaye, W.G. / Payne, R.C. / Willis, D.M. National Coal Board, Cheltenham, Gloucestershire, United-Kingdom
Proc Intersoc Energy Conversion Engineering Conf, 15th, Vol. 1, Seattle, Washington, Aug. 18/20, 1980, 1980

0680 190 Conference proceedings, Combustion, Energy Policy

Economic analysis of coal burning fluidized bed steam and by product power generation systems for industrial facilities
By Mesko, J.E. Pope, Evans and Robbins, Inc., New-York, New-York
Proc Intersoc Energy Conversion Engineering Conf, 15th, Vol. 1, Seattle, Washington, Aug. 18/20, 1980, 1980

0680 191 Conference proceedings, Combustion

Circulating fluidized bed boiler
By Fraley, L.D. / Do, L.N. / Hsiao, K.H. Pullman Kellogg Company, Houston, Texas
Proc Intersoc Energy Conversion Engineering Conf, 15th, Vol. 1, Seattle, Washington, Aug. 18/20, 1980, 1980

0680 192 Conference proceedings, Combustion

Description of the DOE MHD coal fired flow facility (CFFF)
By Martin, J.F. / Muehlhauser, J.W. / Strom, S.S. University of Tennessee, Tullahoma, Tennessee
Proc Inwersoc Energy Conversion Engineering Conf, 15th, Vol. 1, Seattle, Washington, Aug. 18/20, 1980, 1980

0680 193 Conference proceedings, Combustion

Open cycle MHD generator channel development
By Kessler, R. Avco Everett Research Laboratory, Inc., Everett, Massachusetts
Proc Intersoc Energy Conversion Engineering Conf, 15th, Vol. 1, Seattle, Washington, Aug. 18/20, 1980, 1980

0680 194 Conference proceedings, Combustion

An engineering study on the use of regenerative calcium silicates sorbent for AFB power generation from high sulfur coal
By McGauley, P.J. / Albanese, A.S. Brookhaven National Laboratory, Upton, New-York
Proc Intersoc Energy Conversion Engineering Conf, 15th, Vol. 1, Seattle, Washington, Aug. 18/20, 1980, 1980

0680 195 Conference proceedings, Combustion

Selecting fines recycle methods to optimize fluid bed combustor performance
By Rickman, W.S. / Fields, D.E. / Brimhall, W.L. / Callahan, S.F. General Atomic Company, San-Diego, California
Proc Intersoc Energy Conversion Engineering Conf, 15th, Vol. 1, Seattle, Washington, Aug. 18/20, 1980, 1980

0680 196 Conference proceedings, Combustion, Environment

Performance and projections of the electrostatic precipitator in a fluid bed environment
By Mittleman, J.J. / Dumbauld, J.E. Pope, Evans and Robbins, Inc., New-York, New-York
Proc Intersoc Energy Conversion Eng Conf, 15th, Vol. 1, Seattle, Washington, Aug. 18/20, 1980, 1980

0680 197 Article, Combustion, Gasification

Emissions from a pressurized fluidized bed coal combustor
By Pillai, K.K. / Wood, P. National Coal Board, Leatherhead, Surrey, United-Kingdom
J Inst Energy, Vol. 53, No. 417, p. 159-175, Dec. 1980

0680 198 Conference proceedings, Combustion

Liquid metal MHD for solar and coal: system and component status
By Pierson, E.S. / Grammel, S.J. / Cohen, D. / Frisardi, T. Argonne National Laboratory, Argonne, Illinois
Proc Intersoc Energy Conversion Eng Conf, 15th, Vol. 1, Seattle, Washington, Aug. 18/22, 1980, 1980

0680 199 Article, Combustion

The role of the iron containing components in the formation of the steady state potential of coals
By Kamneva, A.I. / Nikitin, K.N. / Spitsyna, N.G.
Solid Fuel Chem, Vol. 14, No. 4, p. 37-39, 1980

0680 200 Article, Combustion, Environment

Absorption of sulfur by the ash in the chamber combustion of fuels
By Baryshev, V.I. / Gol'din, G.N.
Solid Fuel Chem, Vol. 14, No. 4, p. 60-61, 1980

0680 202(*) Conference proceedings, Combustion, Energy Policy

The proceedings of the sixth international conference on fluidized bed combustion. Volume 1 plenary sessions, April 9 11, 1980, Atlanta, Georgia

United-States Department of Energy, Washington, District-of-Columbia, 117p., 1980

0680 203(*) Conference proceedings, Combustion, Environment

The proceedings of the sixth international conference on fluidized bed combustion - Volume 2, technical sessions, April 9 11, Atlanta, Georgia

United-States Department of Energy, Washington, District-of-Columbia, 645p., 1980

0680 204(*) Conference proceedings, Combustion

The proceedings of the sixth international conference on fluidized bed combustion, Volume 3 - Technical sessions, April 9 11, 1980, Atlanta, Georgia

United-States Department of Energy, Washington, District-of-Columbia, 517p., 1980

0680 205 Conference proceedings, Combustion

Thermochemistry of seed and slag vaporization and condensation in coal fired MHD
By Blackburn, P.E. / Johnson, C.E. Argonne National Laboratory, Argonne, Illinois
AIAA 13th Fluid & Plasma Dynamics Conference, Snowmass Colorado, July 14-16, 1980, 5p., 1980

0680 206 Conference proceedings, Combustion

Design study of a coal fired thermionic (THX) - topped power plant
By Dick, R.S. / Banda, B.M. / Starr, J.W. Rasor Associates Inc., Sunnyvale, California
Proc Intersoc Energy Convers Eng Conf 15th, Energy to the 21st Century, Vol. 3, Seattle, Washington, Aug. 18-22, p. 1775-1782, 1980

0680 207 Conference proceedings, Combustion

Studies of MHD generator performance with oxygen enriched coal combustion
By Wormhoudt, J. / Yousefian, V. / Kolb, C.E. / Martinez-Sanchez, M. Aerodyne Research Inc., Bedford, Massachusetts
AIAA Pap AIAA Fluid & Plasma Dyn Conf, 13th, Snowmass, Colorado, Pap 80-1343, 11p., 1980

0680 208 Conference proceedings, Combustion

Coal fired open cycle MHD combustion plasmas: Chemical equilibrum and transport properties workshop results
By Sullivan, L.D. / Klepeis, J.E. / Coderre, W.J. / Fischer, W.H.
AIAA Pap AIAA Aerosp Sci Meet, Published by AIAA, New-York, New-York, 1980

0680 209 Article, Combustion, Environment

Optical instrumentation for in situ particle and droplet measurements
By Bachalo, W.D. / Hess, C.F. Spectron Development Laboratories, Inc., Costa-Mesa, California
Prepr Div Pet Chem Am Chem Soc, Vol. 25, No. 1, p. 169-187, 1980

0680 210 Article, Combustion

Combustion of particles in a large pulverized brown coal flame
By Juniper, L.A. / Wall, T.F. State Electricity Commission of Victoria, Victoria, Australia
Combust Flame, Vol. 39, No. 1, p. 69-81, Sept. 1980

0680 211 Article, Combustion

Heat transfer between a horizontal tube and a gas solid fluidized bed
By Grewal, N.S. / Saxena, S.C. University of Illinois, Chicago, Illinois
Int J Heat Mass Transfer, Vol. 23, No. 11, p. 1509-1519, Nov. 1980

0680 212 Article, Combustion

Laser initiated combustion of single coal particles in quiescent oxygen environments
By Tidona, R.J. University of California, San-Diego, California
Combust Flame, Vol. 38, No. 3, p. 335-337, 1980

0680 213 Article, Combustion, Mining, Beneficiation

A transient dust flame model: Application to coal dust flames
By Kansa, E.J. / Perlee, H.E. United-States Bureau of Mines, Pittsburgh, Pennsylvania
Combust Flame, Vol. 38, No. 1, p. 17-36, May 1980

0680 214 Article, Combustion

Slag and metal oxide vaporization in reactive atmospheres
By Hastie, J.W. / Bonnell, D.W. / Plante, E.R. National Bureau of Standards, Washington, District-of-Columbia
High Temp Sci, Vol. 13, No. 1-4, p. 257-277, 1980

0680 215 Conference proceedings, Combustion

Coal fired fluid bed combustion augmented compressed air energy storage systems
By Giramonti, A.J. / Lessard, R.D. / Merrick, D. United Technologies Research Center, East-Hartford, Connecticut
Proc Intersoc Energy Convers Eng Conf 15th, Energy to the 21st Century, Vol. 2, Seattle, Washington, Aug. 18-22, 1980, 1980

0680 216 Article, Combustion

A prediction method for coal fired furnaces
By Lockwood, F.C. / Salooja, A.P. / Syed, S.A. Imperial College, London, United-Kingdom
Combust Flame, Vol. 38, No. 1, p. 1-15, May 1980

0680 217 Article, Combustion

An investigation of the tendency to undergo spontaneous combustion of coals of new deposits of the Kuzbass
By Novitskii, N.V. / Babkin, R.L. / Martynova, M.I. / Lopaeva, N.P. / Likhacheva, L.A.
Solid Fuel Chem, Vol. 14, No. 5, p. 23-27, 1980

0680 218 Article, Combustion

The dependence on their genesis of the tendency of Donbass coals to undergo spontaneous combustion
By Matsenko, G.P. / Saranchuk, V.I.
Solid Fuel Chem, Vol. 14, No. 5, p. 18-22, 1980

0680 219 Article, Combustion

Investigation of the devolatilization of coal under combustion conditions
By Seery, D.J. United Technologies Research Center, East-Hartford, Connecticut
NTIS, United-States Department of Energy, 3p., 1980
Report No.: DOE/ET/10744-T2

0680 220 Conference proceedings, Combustion

Supplementing coal with solid waste fuels
By Pollock, W.H. Combustion Engineering, Inc., Windsor, Connecticut
Proc Am Power Conf, Vol. 42, Chicago, Illinois, April. 21-23, 1980, p. 1007-1018, 1980

0680 221 Conference proceedings, Combustion, Environment

Baghouse installation on pulverized coal fired boilers burning low sulfur eastern coals at Michigan State University
By Nilsson, P.A. / Heil, T.J. / Dimitry, P. Michigan State University, East-Lansing, Michigan
Proc Am Power Conf, Vol. 42, Chicago, Illinois, April. 21-23, 1980, p. 988-997, 1980

0680 222 Conference proceedings, Combustion

6 X 6 fluidized bed development facility: a status report
By Bonk, D.L. / Smith, J.W. / Apa, R.P. / Aulisio, C.J. Babcock & Wilcox Company, Barberton, Ohio
Proc Am Power Conf, Vol. 42, Chicago, Illinois, April. 21-23, 1980, p. 938-947, 1980

0680 223 Conference proceedings, Combustion

Bunkers or silos for in plant coal storage - a cost comparison
By Kroener, E.F. Gilbert/Commonwealth, Reading, Pennsylvania
Proc Am Power Conf, Vol. 42, Chicago, Illinois, April. 21-23, 1980, p. 891-897, 1980

0680 224 Conference proceedings, Combustion

New liquid metal MHD concepts for solar and coal
By Pierson, E.S. Argonne National Laboratory, Argonne, Illinois
Proc Am Power Conf, Vol. 42, Chicago, Illinois, April. 21-23, 1980, p. 379-385, 1980

0680 225 Conference proceedings, Combustion

Technical and economic aspects of coal fired district heating power plants in the United States
By Oliker, I. / Muhlhauser, H.J. Burns and Roe Inc., Oradell, New-Jersey
Proc Am Power Conf, Vol. 42, Chicago, Illinois, April. 21-23, 1980, p. 351-357, 1980

0680 226 Conference proceedings, Combustion

Cofiring coal and refuse derived fuel in a utility steam generator: operational exprience and corrosion probe evaluation
By Petersdorf, R.J. / Sansone, S.M. / Plumley, A.L. / Roczniak, W.R. / McGowin, C.R. Wisconsin Electric Power Company, Milwaukee, Wisconsin
Proc Am Power Conf, Vol. 42, Chicago, Illinois, April. 21-23, 1980, p. 204-224, 1980

0680 227 Conference proceedings, Combustion

How Detroit Edison solved wet and frozen coal flow problems at its Monroe power plant
By Moaveni, M. / Stewart, G.D. Detroit Edison Company, Detroit, Michigan
Proc Am Power Conf, Vol. 42, Chicago, Illinois, April. 21-23, 1980, p. 198-203, 1980

0680 228 Conference proceedings, Combustion

Coal use in boilers designed for oil and gas firing
By Ehrlich, S. / Drenker, S. / Manfred, R. Electric Power Research Institute, Palo-Alto, California
Proc Am Power Conf, Vol. 42, Chicago, Illinois, April. 21-23, 1980, p. 172-180, 1980

0680 229 Conference proceedings, Combustion

Design features of a 1200 MW coal fired plant designed for daily cycling
By Healy, W.J. Wisconsin Electric Power Company, Milwaukee, Wisconsin
Proc Am Power Conf, Vol. 42, Chicago, Illinois, April. 21-23, 1980, p. 61-67, 1980

0680 231 Article, Combustion

An investigation of the electrical precipitation of Ekibastuz coal ash as a function of the exhaust gas temperature
By Kizim, I.A. / Troitskii, A.A.
Power Eng (New-York), Vol. 18, No. 3, p. 139-141, 1980

0680 232 Report, Combustion

Coal fired open cycle liquid metal magnetohydrodynamic topping cycle for retrofit of steam power plants
By Pierson, E.S. / Herman, H. / Petrick, M. / Boom, R.W. / Carlson, L. / Cohen, D. / Dubey, G. / Grammel, S.J. / Schreiner, F. / Snyder, B.K. / Zinneman, T. Argonne National Laboratory, Argonne, Illinois
United-States Department of Energy, 113p., Dec. 1980
Report No.: ANL/MD HD-80-18

0680 233 Article, Combustion, Properties

Rheology of ageing of coal oil suspension
By Bhattacharya, S.N. / Barro, L. Royal Melbourne Institute of Technology, Melbourne, Australia
Rheology, Proc of the Int Congr on Rheol, 8th, Vol. 2, p. 615-621, Sept. 1980

0680 234 Article, Combustion, Environment

Demonstration d rdf burn gsa pentagon power plant
By Freemen, H.M. / Campbell, J. / Golembiewski, M.A. IERL, Cincinnati, Ohio
Ntl Conf Environ Eng., Proc ASCE Environ Eng Div Spec Conf., p. 598-603, 1980

0680 235 Article, Combustion

Mathematical description of the coal heating process using gaseous heating agent in multi stage equipment
By Zabello, L.A. / Babanin, B.I. / Glyanchenko, V.D.
Coke Chem (USSR), No. 9, p. 1-4, 1980

0680 236 Book, Combustion, Gasification, Liquefaction, Transportation

Lignite technology
By Nowacki, P.
Noyes Data Corporation, Park-Ridge, New-Jersey, 1980

0680 237 Report, Combustion, Environment

Sorbent utilization prediction methodology: sulfur control in fluidized bed combustors
By Fee, D.C. / Wilson, W.I. / Shearer, J.A. / Smith, G.W. / Lenc, J.F. / Fan, L.S. / Myles, K.M. / Johnson, I. Argonne National Laboratory, Argonne, Illinois
United-States Department of Energy, 443p., Sept. 1980
Report No.: ANL/CEN/FE-80-10

0680 238 Article, Combustion

An appraisal of the present status of direct reduction processes using non coking coal
By Chatterjee, A. / Singh, R. Tata Iron & Steel Company, Ltd., Jamshedpur, India
TISCO, Vol. 27, No. 1-4, p. 35-48, 1980

0680 239 Article, Combustion

Assessment of hot gas clean up systems and turbine erosion/corrosion problems PFBC combined cycle systems
By Stringer, J. / Ehrlich, S. / Slaughter, W.W. / Dolbec, A.C. Electric Power Research Institute, Palo-Alto, California
J Eng Power Trans Asme, Vol. 102, No. 2, p. 468-475, April 1980

0680 240 Conference proceedings, Combustion

Bed expansion and heat transfer measurements in a pressurized fluidized bed
By Zakkay, V. / Miller, G. / Rosen, S. / Shah, S. / Kolar, A.K. New-York University, New-York, New-York
Proc of the Multiphase Flow and Heat Transfer Symp-Workshop, Vol. 4, Miami-Beach, Florida, April 16-18, 1979, Publ by Hemisphere Publ Corporation, Washington, District-of-Columbia, p. 2245-2268, 1980

0680 241 Article, Combustion, Environment

Chemical species in fly ash from coal burning power plants
By Hulett, L.D. / Weinberger, A.J. / Northcutt, K.J. / Ferguson, M. Oak-Ridge National Laboratory, Oak-Ridge, Tennessee
Science, Vol. 210, No. 4476, p. 1356-1358, 1980

0681 0 Conference proceedings, Combustion

Scientific aspects of the combustion of coal oil, coal water and coal oil water mixtures
By Reuther, J.J. Pennsylvania State University, University-Park, Pennsylvania
Coal Characteristics and Coal Utilization Conference, Pennsylvania State University, 40p., June 1981
Report No.: PSU-FCL-C-81-150

0681 1 Conference proceedings, Combustion

Fluidized bed combustion
By Gray, D. Coal Processing Consultants Limited, Vancouver, British-Columbia
A Symposium on Coal - The New Energy, Edmonton, Alberta, April 7/8, 1981, 37p., 1981

0681 2 Conference proceedings, Combustion

Some advanced systems for power generation
By Hoy, R. / Sparham, G. / Lunn, H.G. National Coal Board, London, United-Kingdom
A Symposium on Coal - The New Energy, Edmonton, Alberta, April 7/8, 1981, 18p., 1981

0681 3 Article, Combustion

Influence of temperature on incipient fluidization of limestone, lime, coal ash, and corundum
By Svoboda, K. / Hartman, M. Czechoslovak Academy of Sciences, Prague, Czechoslovakia
Ind Eng Chem Process Des Dev, Vol. 20, No. 2, p. 319-326, 1981

0681 4 Article, Combustion

Maximum heat transfer coefficient between a horizontal tube and a gas solid fluidized bed
By Grewal, N.S. / Saxena, S.C.
Ind Eng Chem Process Des Dev, Vol. 20, No. 1, p. 106-116, Jan. 1981

0681 5 Book, Combustion

Citations from the energy data base, coal oil mixtures, (June 1976 - April 1981)
National Technical Information Service, Springfield, Virginia
United-States Department of Commerce, 160p., 1981

Report No.: PB80-858178

0681 6 Article, Combustion

Plume model for large particle fluidized bed combustors
By Park, D. / Levenspiel, O. / Fitzgerald, T.J. Oregon State University, Corvallis, Oregon
Fuel, Vol. 60, No. 4, p. 295-306, April 1981

0681 7 Article, Combustion, Liquefaction

An information system for the 80s
By Taylor, J.H. / Johnson, J.A. / Barton, W.J. / Wang, R. Exxon Research and Development Laboratories, Baton-Rouge, Louisiana
Chem Eng Prog, p. 41-43, Aug. 1981

0681 8 Abstract-book, Combustion

Fluidized bed combustion: citations from the NTIS data base, 1980 - April, 1981
By Cavagnaro, D.M.
United-States Department of Commerce, NTIS, Springfield, Virginia, 240p., 1981
Report No.: PB81-805905

0681 9 Abstract-book, Combustion

Fluidized bed combustion: citations from the engineering index data base, 1979 - April, 1981
By Cavagnaro, D.M.
United-States Department of Commerce, NTIS, Springfield, Virginia, 397p., 1981
Report No.: PB81-805897

0681 10 Conference proceedings, Combustion

The USDOE'S advanced coal combustion research program
By Bienstock, D. / Birkeland, J. / Wellek, R.M. United-States Department of Energy, Washington, District-of-Columbia
2nd World Congr. of Chemical Engineers and World Chemistry Expos, Oct. 4-9, 1981, Montreal, p. 187-192, 1981

0681 11 Conference proceedings, Combustion, Environment

Fluidized bed combustion technologies in Japan
By Yoshida, K. University of Tokyo, Tokyo, Japan
The 2nd World Congress of Chemical Engineers and World Chemistry Exposition, Montreal, Oct. 4/9, 1981, p. 29-32, 1981

0681 12 Article, Combustion

Combustion of low grade fuels in a fluidised bed
By Hampartsoumian, E. / Gibbs, B.M. University of Leeds, Leeds, United-Kingdom
IEE Conf Publ, Vol. 192, No. (Int Conf Future Energy Concepts, 3rd), p. 219-223, 1981

0681 13 Article, Combustion

Fireside corrosion of reheater tubes
By Wright, D. / Mitchell, P.J. / Aston, J. Central Electricity Generating Board, Nottingham, United-Kingdom
Erdoel Kohle, Erdgas, Petrochem, Vol. 34, No. 4, p. 174, 1981

0681 14 Article, Combustion

Effect of sodium, potassium, magnesium, calcium, and chlorine on the high temperature corrosion of IN 100, U 700, IN 792, and MAR M 509
By Lowell, C.E. / Sidik, S.M. / Deadmore, D.L. Lewis Research Center, National Aeronautics and Space Administration, Cleveland, Ohio
J Eng Power Trans ASME, Vol. 103, No. 2, p. 294-307, April 1981

0681 15 Article, Combustion, Environment

Direct observations of devolatilizing pulverized coal particles in a combustion environment
By McLean, W.J. / Hardesty, D.R. / Pohl, J.H. Sandia Laboratories, Livermore, California
Symp (Int) Combust (Proc), Vol. 18, p. 1239-1248, 1981

0681 16 Conference proceedings, Combustion

Devolatilization and combustion of coal in fluidized bed combustors
By Pattipati, R.R. / Wen, C.Y. West-Virginia University, Morgantown, West-Virginia
2nd World Congr. of Chemical Engineers and World Chemistry Expos, Oct. 4-9, 1981, p. 42-47, 1981

0681 17 Article, Combustion, Environment, Gasification

Early operation of the Celanese Fibers Company coal fired boiler using the dry flue gas cleaning system
By Crowe, R.B. / Lane, J.F. / Petti, V.J. Celanese Fibers Company, Cumberland, Maryland
Combustion, Vo. 52, No. 8, p. 34-37, 1981

0681 18 Conference proceedings, Combustion

Development of pressurised fluidised combustion for combined cycle plant
By Strickland, L.D. / Hoy, H.R. / Roberts, A.G.
2nd World Congr. of Chemical Engineers and World Chemistry Expos, Montreal, Oct. 4-9, 1981, Vol. II, p. 32-36, 1981

0681 19 Conference proceedings, Combustion

Fluid and particle mechanics in combustion
By Chigier, N.A. University of Sheffield, Sheffield, United-Kingdom
2nd World Congress of Chemical Engineers and World Chemistry Exposition, Oct. 4/9, 1981, Montreal, Vol. II, p. 174-176, 1981

0681 20 Conference proceedings, Combustion, Gasification

The two phase atmospheric fluid bed system, applied to efficient utilisation of coals and lignites for varied combustion applications and for efficient manufacture of industrial producer gas
By Caplin, P.B. Energy Equipment Company Limited, United-Kingdom
2nd World Congress of Chemical Engineers and World Chemistry Exposition, Vol. 2, Oct. 4/9, 1981, Montreal, Quebec, p. 177-180, 1981

0681 21 Conference proceedings, Combustion

A coal burning rotating fluidized bed combustor operating at atmospheric pressure
By Oskam, G.W. / Howard, J.R. University of Aston, Birmingham, United-Kingdom
2nd World Congress of Chemical Engineers and World Chemistry Exposition, Vol. 2, Oct. 4/9, 1981, Montreal, Quebec, p. 91-94, 1981

0681 22 Conference proceedings, Combustion

Preparation of coal oil mixture fuels
By Trass, O. University of Toronto, Toronto, Ontario
2nd World Congress of Chemical Engineers and World Chemistry Exposition, Vol. 2, Oct. 4/9, 1981, Montreal, Quebec, p. 103-107, 1981

0681 23 Article, Combustion

Influence of air oxidation on the pressure exerted by coking coals during carbonization
By Escudero, J.B. / Alvarez, R.
Fuel, Vol. 60, No. 3, p. 251-253, March 1981

0681 24 Article, Combustion, Gasification

Model for pulverized coal fired reactors
By Smith, P.J. / Fletcher, T.H. / Smoot, L.D. Brigham-Young University, Provo, Utah
Symp (Int) Combust (Proc), Vol. 18, p. 1285-93, 1981

0681 25 Article, Combustion, Gasification

Modeling of dynamic and steady state shallow fluidized bed coal combustors. Effects of feeder distribution
By Tojo, K. / Chang, C.C. / Fan, L.T. Kansas State University, Manhattan, Kansas
Ind Eng Chem Process Des Dev, Vol. 20, No. 3, p. 411-416, 1981

0681 26 Book, Combustion, Environment, Properties

Trace elements in coal
By Hills, L.V. / Jones, W. Science Advisory Committee to Environment Council of Alberta, Edmonton, Alberta
Environment Council of Alberta, 111p., March 1981
Report No.: ECA81/SA-1

0681 27 Article, Combustion, Properties

New observations on the aqueous sodium dichromate oxidation of bituminous and lignite coals
By Duty, R.C. / Sines, L.R. Illinois State University, Normal, Illinois
Fuel, Vol. 60, No. 6, p. 534-535, 1981

0681 28 Article, Combustion

NO/char reactions at pulverized coal flame conditions
By Levy, J.M. / Chan, L.K. / Sarofim, A.F. / Beer, J.M. Massachusetts Institute of Technology, Cambridge, Massachusetts
Symp (Int) Combust (Proc), Vol. 18, p. 111-120, 1981

0681 29 Article, Combustion, Environment

Nitrogen containing polycyclic aromatic compounds in sooting flames
By Kausch, W.J. / Clampitt, C.M. / Prado, G. / Hites, R.A. / Howard, J.B. Massachusetts Institute of Technology, Cambridge, Massachusetts
Symp (Int) Combust (Proc), Vol. 18, p. 1097-1104, 1981

0681 30 Article, Combustion

Operating experiences with improved rapping on electrostatic precipitators treating fly ash from high and low sulphur coals
By Pearson, K.H.
Combustion, Vol. 52, No. 10, p. 45-50, 1981

0681 31 Article, Combustion, Gasification

Parametric study of potential early commercial MHD power plants
By Hollis, J.R. University of Tennessee Space Institute, Tullahoma, Tennessee
Int J Energy Syst, Vol. 1, No. 1, p. 64-68, 1981

0681 32 Article, Combustion

Pilot scale development of a low NO//x coal fired tangential system
By Kelly, J.T. / Brown, R.A. / Wightman, J.B. Acurex Corporation, Mountain-View, California
Symp (Int) Combust (Proc), Vol. 18, p. 1275-1283, 1981

0681 33 Article, Combustion

Spontaneous combustion in beds of small fuel particles
By Lawn, C.J. / Street, P.J. / Baum, M.M. Central Electricity Generating Board, Hampshire, United-Kingdom
Symp (Int) Combust (Proc), Vol. 18, p. 731-740, 1981

0681 34 Article, Combustion

Pulverized coal diffusion flames: A perspective through modelling
By Smoot, L.D. Brigham-Young University, Provo, Utah
Symp (Int) Combust (Proc), Vol. 18, p. 1185-1202, 1981

0681 35 Article, Combustion, Mining

Reinforced blast waves in gases containing solid particles
By Eidelman, S. / Oved, Y. / Hasson, A. / Burcat, A. Israel Institute of Technology, Haifa, Israel
Combust Sci Technol, Vol. 25, No. 1-2, p. 21-30, 1981

0681 36 Patent, Combustion

Solid fuel composition
By McMahon, M.A. / Meldrum, G.C. Texaco Inc., White-Plains, New-York
Assignee: Texaco Inc., Feb. 1981, 6p., 44/1B, C10L5/00, Patent: United-States, 4 252 539, July, 1979,, Appl. 57 132, Feb. 1981
Report No.: p. 4 252 539

0681 37 Article, Combustion

Coal combustion at high reynolds number
By Ragland, K.W. / Jehn, T.C. / Yang, J.T. University of Wisconsin, Madison, Wisconsin
Symp (Int) Combust (Proc), Vol. 18, p. 1295-1303, 1981

0681 38 Article, Combustion, Environment

Coal fly ash: a review of the literature and proposed classification system with emphasis on environmental impacts
By Roy, W.R. / Thiery, R.G. / Schuller, R.M. / Suloway, J.J. Illinois State Geological Survey, Champaign, Illinois
Environ Geol Notes, Iss. 96, 69p., April 1981

0681 39 Article, Combustion, Liquefaction, Gasification

Coal pyrolysis looks good
By Cortez, D.H. / LaDelfa, C.J. Tosco Corporation, Los-Angeles, California

Hydrocarbon Process, Vol. 60, No. 2, p. 111-117, Feb. 1981

0681 40 Article, Combustion

Upper flammability limits of coal dust air mixtures
By Deguingand, B. / Galant, S. Societe Bertin & Cie, Tarnos, France
Symp (Int) Combust (Proc), Vol. 18, p. 705-715, 1981

0681 41 Article, Combustion

A new approach for erosion prediction due to fly ash
By Kotwal, R. / Tabakoff, W. University of Cincinnati, Cincinnati, Ohio
J Eng Power Trans Asme, Vol. 103, No. 2, p. 265-270, April 1981

0681 42 Article, Combustion

Application of reliability techniques to mature, near term and future coal utilization technologies
By Maruvada, S.N. Gilbert/Commonwealth, Reading, Pennsylvania
IEEE Trans Power Appar Syst, Vol. PAS-100, No. 6, p. 2813-2818, 1981

0681 43 Article, Combustion

Burning rates of coal in fluidized bed combustion
By Pillai, K.K. National Coal Board, Cheltenham, Gloucestershire, United-Kingdom
Fuel, Vol. 60, no. 2, p. 163-164, 1981

0681 44 Article, Combustion

The effect of vitiated air on the combustion of pulverized coal for applications to coal fired combined cycle steam generators
By Floris, F. Istituo de Meccanica della Facolta di Ingegneria, Cagliari, Italy
Symp (Int) Combust, (Proc), Vol. 18, p. 1313-1320, 1981

0681 45 Article, Combustion

The influence of oxygen and total pressure on the surface oxidation rate of bituminous coal
By Lester, T.W. / Seeker, W.R. / Merklin, J.F. Kansas State University, Manhattan, Kansas
Symp (Int) Combust, (Proc), Vol. 18, p. 1257-1265, 1981

0681 46 Article, Combustion

The limits of flammability of pulverized coals and other dusts
By Hertzberg, M. / Cashdollar, K.L. / Lazzara, C.P. United-States Bureau of Mines, Pittsburgh, Pennsylvania

Symp (Int) Combust, (Proc), Vol. 18, p. 717-729, 1981

0681 47 Article, Combustion

The processing of solid particles in fluidized beds
By Mauri, R. / Stecconi, P. Breda Termomeccanica, Milano, Italy
Symp (Int) Combust, (Proc), Vol. 18, p. 249-255, 1981

0681 48 Article, Combustion

The thermal decomposition of pulverized coal particles
By Seeker, W.R. / Samuelsen, G.S. / Heap, M.P. / Trolinger, J.D. Energy and Environmental Research Corporation, Santa-Ana, California
Symp (Int) Combust (Proc), Vol 18, p. 1213-1226, 1981

0681 49 Article, Combustion

Vaporization and condensation of mineral matter during pulverized coal combustion
By Neville, M. / Quann, R.J. / Haynes, B.S. / Sarofim, A.F. Massachusetts Institute of Technology, Cambridge, Massachusetts
Symp (Int) Combust (Proc), Vol. 18, p. 1267-1274, 1981

0681 50 Article, Combustion

Construction program for a large superconducting MHD magnet system at the coal fired flow facility
By Wang, S.T. / Genens, L. / Gonczy, J. / Ludwig, H. / Lieberg, M. / Kraft, E. / Gacek, D. / Huang, Y.C. / Chen, C.J. Argonne National Laboratory, Argonne, Illinois
IEEE Trans Magn, Vol. Mag-17, No. 1, p. 529-532, Jan. 1981

0681 51 Report, Combustion

Operation and testing of the Wormser Grate fluidized bed combustor at the USM Corporation facility at Beverly, Massachussetts
By Fraser, R.G. / Wormser, A. Wormser Engineering, Inc., Middleton, Massachusetts
United-States Department of Energy, Morgantown, West-Virginia, July 1981
Report No.: DOE/ET/15460-193

0681 52 Article, Combustion, Environment

Shock tube studies on the formation of soot from the combustion and pyrolysis of some hydrocarbons
By Evans, M. / Williams, A. University of Leeds, Leeds, United-Kingdom
Fuel, Vol. 60, No. 11, p. 1047-1056, 1981

0681 53 Article, Combustion

Studies on slag deposit formation in pulverized coal combustors. 1. Results on the wetting and adherence of synthetic coal ash drops on steel
By Moza, A.K. / Austin, L.G. Pennsylvania State University, University-Park, Pennsylvania
Fuel, Vol. 60, No. 11, p. 1057-1064, 1981

0681 54 Article, Combustion

Studies on slag deposit formation in pulverized coal combustors. 2. Results on the wetting and adhesion of synthetic ash drops on different steel substrates
By Abbot, M.F. / Moza, A. K. / Austin, L.G. Pennsylvania State University, University-Park, Pennsylvania
Fuel, Vol. 60, No. 11, p. 1065-1072, 1981

0681 55 Conference proceedings, Combustion

Comparative study of two models for a nonisothermal continuous fluidized bed catalytic reactor
By Jovanovic, S. / Bukur, D. University of Novi Sad, Yugoslavia
2nd World Congress of Chemical Engineers and World Chemistry Expos. Oct 4/9, 1981, Montreal, Quebec, Vol. 3, p. 329-332, 1981

0681 56 Conference proceedings, Combustion

Circulating fluid bed combustion for energy
By Beisswenger, H. / Petersen, V. / Plass, L. Lurgi Chemie und Huettentechnik, Frankfurt, Germany
2nd World Congress of Chemical Engineers and World Chemistry Expos. Oct 4/9, 1981, Montreal, Quebec, Vol. 3, p. 112-115, 1981

0681 57 Conference proceedings, Combustion

Advances in fluidized bed combustion technology concepts, applications, pros & cons
By Crouse, F.W. / Nazemi, A.H.
2nd World Congress of Chemical Engineers and World Chemistry Expos. Oct 4/9, 1981, Montreal, Quebec, Vol. 3, p. 106-111, 1981

0681 58 Conference proceedings, Combustion

Defluidization characteristics in sticky beds of caking coals
By Lau, I.T. CANMET, Ottawa, Ontario
2nd World Congress of Chemical Engineers and World Chemistry Expos. Oct 4/9, 1981, Montreal, Quebec, Vol. 3, p. 103-105, 1981

0681 59 Conference proceedings, Combustion, Environment

Heterogeneous gas solid reaction studies in a high temperature diffusion cell: the effect of sodium chloride on sulfur

capture in fluidized bed combustion
By Bardakci, T. / Gasner, L.L. Catholic University of America, Washington, District-of-Columbia
2nd World Congress of Chemical Engineers and World Chemistry Expos. Oct 4/9, 1981, Montreal, Quebec, Vol. 3, 10p., 1981

0681 60 Article, Combustion

Coal oil dispersions - an overview
By Veal, C.J. / Wall, D.R. British Petroleum Company Limited, London, United-Kingdom
Fuel, Vol. 60, No. 9, p 873-876, 1981

0681 61 Article, Combustion, Transportation, Liquefaction

Coal oil mixture technology in the US
By Bienstock, D. / Jamgochian, E.M. United-States Department of Energy, Pittsburgh, Pennsylvania
Fuel, Vol. 60, No. 9, p. 851-864, 1981

0681 62 Article, Combustion, Transportation

COLLOIL manufacture and application
By Clayfield, E.J. / Dorresteijn, W.R. / Lumb, E.C. / Wilbraham, K.J. / Barratt, D.J. Shell Research Limited, Chester, United-Kingdom
Fuel, Vol. 60, No. 9, p. 865-672, 1981

0681 63 Article, Combustion

Control strategies for fluidized bed combustion
By Criswell, R.L. Foster Wheeler Energy Corporation, Livingston, New-Jersey
Intech, Vol 27, No. 1, p. 37-43, 1981

0681 64 Article, Combustion, Properties

Correlation between ash fusion temperatures and ternary equilibrium phase diagrams
By Huggins, F.E. / Kosmack, D.A. / Huffman, G.P. United-States Steel Corporation, Monroeville, Pennsylvania
Fuel, Vol. 60, No. 7, p. 577-584, 1981

0681 65 Article, Combustion, Environment

Correlation between light attenuation and particulate concentration of a coal fired power plant emission
By Conner, W.D. / White, N. United-States Environmental Protection Agency, Research-Triangle-Park, North-Carolina
Atmos Environ, Vol. 15, No. 6, p. 939-944, 1981

0681 66 Article, Combustion, Environment

Corrosion in lime/limestone slurry scrubbers for coal fired boiler flue gases
By Crow, G.L. / Horsman, H.R. Tennessee Valley Authority, Muscle-Shoals, Alabama
Mater Perform, Vol. 20, No. 7, p. 35-45, 1981

0681 67 Article, Combustion

An analysis of critical ignition and extinction diameters of solid particles
By Kordylewski, W. / Kruczek, H. / Rybak, W. Institute of Power Engineer and Fluid Mechanics, Wroclaw, Poland
Combust Sci Technol, Vol. 26, No. 3-4, p. 157-160, 1981

0681 68 Article, Combustion, Environment

Atmospheric oxidation of flue gases from coal fired power plants - a comparison between conventional and scrubbed plumes
By Meagher, J.F. / Stockburger, L. / Bonanno, R.J. / Bailey, E.M. / Luria, M. Tennessee Valley Authority, Muscle-Shoals, Alabama
Atmos Environ, Vol. 15, No. 5, p. 749-762, 1981

0681 69 Report, Combustion

Atmospheric fluidized bed projects technology overview - topical report

United-States Department of Energy, 57p., Feb. 1981
Report No.: DOE/METC/SP-108

0681 70 Report, Combustion, Beneficiation

Coal agglomeration and coal oil mixture combustion in a utility boiler Phase III - Final Report
By Whaley, H. New-Brunswick Electric Power Commission, Fredericton, New-Brunswick
CANMET, Energy, Mines and Resources, 106p., Jan. 1981
Report No.: DSS-OSQ79-00054

0681 71 Patent, Combustion

Oil agglomeration process
By Halvorsen, W.J. Consolidation Coal Company, Pittsburgh, Pennsylvania
Assignee: Consolidation Company, Feb. 1981, 4p., 209/5, B03B1/04, Patent: United-States, 4 248 697, May 1979, Appl.42748, Feb. 1981

0681 72 Patent, Combustion, Liquefaction

Combustible fuel composition
By Denker, B.L. / Hoffert, F.D. Hydrocarbon Research, Inc., Lawrenceville, New-Jersey
Assignee: Hydrocarbon Research, Inc., Feb. 1981, 6p., 44/53, C10L 1/18, Patent: United-States, 4 249 911, Feb. 1979, Appl. 12 428, Feb. 1981

0681 73 Patent, Combustion, Beneficiation

Process for agglomerating coal
By Frankovich, J.H. Atlantic Richfield Company, Philadelphia, Pennsylvania
Assignee: Atlantic Richfield Company, March 1981, 6p., 44/1 SR, C10L 9/00, Patent: United-States, 4 255 155, Dec. 1978, Appl. 971 477, March 1981

0681 74 Article, Combustion, Properties

Investigation of the high temperature behaviour of coal ash in reducing and oxidizing atmospheres
By Huffman, G.P. / Huggins, F.E. / Dunmyre, G.R. United-States Steel Corporation, Monroeville, Pennsylvania
Fuel, Vol. 60, No. 7, p. 585-597, 1981

0681 75 Article, Combustion, Environment

Fluidized bed combustion of high sulfur coal proves successful at Georgetown University
By Gamble, R.L. / McClay, W.J.
Min Eng (Littleton, Colo.), Vol. 33, No. 3, p. 282-285, 1981

0681 76 Article, Combustion

Fly ash characteristics and radiative heat transfer in pulverized coal fired furnaces
By Wall, T.F. / Lowe, A. / Wibberley, L.J. / Mai-viet, T. / Gupta, R.P. University of Newcastle, Newcastle, Australia
Combust Sci Technol., Vol. 26, No. 3-4, p. 107-121, 1981

0681 77 Article, Combustion

DTGA combustion of coals in the Exxon coal library
By Smith, S.E. / Neavel, R.C. / Hippo, E.J. / Miller, R.N. Exxon Research and Engineering Company, Baytown, Texas
Fuel, Vol. 60, No. 6, p. 458-462, 1981

0681 78 Article, Combustion

Use crosscorrelation for reliable detection of pulverized coal combustion
By Longrigg, P.
Intech, Vol. 28, No. 3, p. 53-56, 1981

0681 79 Article, Combustion

Slagging in boiler furnaces: an assessment technique based on thermal behaviour of coal minerals
By Sanyal, A. / Williamson, J. Babcock Power Ltd., London, United-Kingdom
J Inst Energy, Vol. 54, No. 420, p. 158-162, 1981

0681 80 Patent, Combustion, Beneficiation

Non air polluting, non pyrolytic upgrading of coal for cleaner and more effective electrical power generation
By Williams, R.
Assignee: RCA Corporation, March 1981, 3p., 429/17, 429/19, H01M 8/06, Patent: United-States, 4 259 414, Nov. 1979, Appl. 98 695, March 1981
Report No.: p. 4 259 414

0681 81 Conference proceedings, Combustion, Gasification, Liquefaction

Coal technologies under development, applications and status of processes
By Liccardi, A.L. / Freedman, S.I. United-States Department of Energy, Washington, District-of-Columbia
Symp papers, Advances Coal Utilization Technology IV, April 20-24, 1981, Denver, Colorado, p. 45-53, 1981

0681 82 Article, Combustion

Arc steel electrodes from coal via solvent extraction
By Kimber, G.M. / Brown, A. / Kirk, J.N. National Coal Board, Cheltenham, Gloucestershire, United-Kingdom
High Temp - High Pressures, Vol. 13, No. 2, p. 133-137, 1981

0681 83 Article, Combustion

Carbon fibres from coal tar pitch
By Romey, I. / Hein, M. Bergbau-Forschung GmbH, Essen, Germany
Fuel, Vol. 60, No. 9, p. 848-50, 1981

0681 84 Article, Combustion

Circulating fluidized bed boilers
By Yerushalmi, J. Electric Power Research Institute, Palo-Alto, California
Fuel Process Technol, Vol. 5, No. 1-2, p. 25-63, 1981

0681 85 Article, Combustion

Automatic trimming of combustion air to a pulverized coal fired boiler using the flue gas carbon monoxide signal
By Ormerod, W.G.
J Inst Energy, Vol. 54, No. 420, p. 174-176, 1981

0681 86 Article, Combustion, Gasification

The petrochemistry of coal ash slags. Part 3. Behaviour of the rosebud slag limestone system
By Witthoeft, C. / Schobert, H.H. Grand-Forks Energy Technology Center, Grand-Forks, North-Dakota
Fuel Process Technol, Vol. 5, No. 1-2, p. 157-164, 1981

0681 87 Article, Combustion, Properties

The manufacture of artefacts from coal
By Beech, R.N. / Price, M.S. Anglo Great Lakes Corporation Ltd., Newcastle-upon-Tyne, United-Kingdom
Fuel, Vol. 60, No. 9, p. 889-896, 1981

0681 88 Article, Combustion

Review of injection of coal into blast furnace tuyeres
By Monson, J.R. / Gathergood, D.S. British Steel Corporation, Cleveland, United-Kingdom
Ironmaking Steelmaking, Vol. 8, No. 3, p. 101-103, 1981

0681 89 Article, Combustion

Coal injection systems for blast furnaces
By Hemming, C.M. / Carter, G.C.
Ironmaking Steelmaking, Vol. 8, No. 3, p. 104-113, 1981

0681 90 Patent, Combustion

All dry solid potassium seed regeneration system for magnetohydrodynamic power generation plant
By Lahoda, E.J.
Assignee: Westinghouse Electric Corp., Jan 1981, 5p., 423/428,·C01D 7/00, Patent: United-States, 4 243 645, Appl. 77 802, Jan. 1981
Report No.: 4 243 645

0681 91 Patent, Combustion

Coal article
By Christian, M.W.
Assignee: Banner Energy Corporation, Jan. 1981, 6p., 44/14, C10L 5/36, Patent: United-States, 4 243 393, Appl. 841 937, Jan. 1981
Report No.: p. 4 243 393

0681 93 Conference proceedings, Combustion

Utilization of fluidized bed combustion for oil field steam generation
By Davis, J.S. / Young, W.W. / Nack, H. Struthers Wells Corporation, Warren, Pennsylvania
Symp.Pap. Advances Coal Utilization Technology IV, April 20-24, 1981, Denver, Colorado, p. 529-543, 1981

0681 94 Conference proceedings, Combustion

Advanced power plant siting in Ohio
By Park, W.R. / Leigh, J.G. / Kung, S.L. / Carlson, E. / Turner, J. MITRE Corporation, Westgate Research Park, McLean, Virginia
Symp.Pap. Advances Coal Utilization Technology IV, April 20-24, 1981, Denver, Colorado, p. 545-570, 1981

0681 95 Conference proceedings, Combustion

MHD/steam electical power production - A report
By Strom, S.S. / Chapman, J.N. / Wu, Y.C. University of Tennessee Space Institute, Tullahoma, Tennessee
Symp.Pap. Advances Coal Utilization Technology IV, April 20-24, 1981, Denver, Colorado, p. 581-597, 1981

0681 96 Conference proceedings, Combustion

Tennessee valley authority's atmospheric fluidized bed combustion projects
By Mayfield, M.J. / Manaker, A.M. / Simmons, J.E. / Withers, H.W. Tennessee Valley Authority, Chattanooga, Tennessee
Symp.Pap. Advances Coal Utilization Technology IV, April 20-24, 1981, Denver, Colorado, p. 599-623, 1981

0681 97 Conference proceedings, Combustion

Test results of the EPRI/B&W 6'x 6' fluidized bed combustor
By Lewis, J.A. / Modrak, T.M. / Michaud, E.R. / Aulisio, C.J. Alliance Research Center, Alliance, Ohio
Symp.Pap. Advances Coal Utilization Technology IV, April 20-24, 1981, Denver, Colorado, p. 625-643, 1981

0681 98 Conference proceedings, Combustion, Gasification

Advances in pressurized fluidized bed steam cycle technology
By Boericke, R.R. General Electric Company, Schenectady, New-York
Symp.Pap. Advances Coal Utilization Technology IV, April 20-24, 1981, Denver, Colorado, p. 645-664, 1981

0681 99 Conference proceedings, Combustion

Molten carbonate fuel cell systems development
By Herceg, J.E. Argonne National Laboratory, Argonne, Illinois
Symp.Pap. Advances Coal Utilization Technology IV, April 20-24, 1981, Denver, Colorado, p. 731-747, 1981

0681 100 Article, Combustion

Co ordination of material and energy balances as a basis of combustion process optimization
By Szargut, J. / Kolenda, Z. / Taramina, K. Stanilsaw Staszic University of Mining and Metallurgy, Cracow, Poland
Int J Energy Res, Vol. 5, No. 3, p. 253-261, 1981

0681 101 Article, Combustion, Properties

A laboratory study of the thermal behaviour of coal minerals
By Nolan, J.T. / Rogers, P.S. / Sanyal, A. / Williamson, J. Imperial College, London, United-Kingdom
Microstruct Sci, Vol. 9, p. 99-108, 1981

0681 102 Article, Combustion, Properties

Analysis of coal oil mixture sedimentation by modified continuity wave theory
By Ekmann, J.M. / Klinzing, G.E. Pittsburgh Energy Technology Center, Pittsburgh, Pennsylvania
Can J Chem Eng, Vol. 59, No. 4, p. 417-22, 1981

0681 103 Patent, Combustion

Uniform coal suspensions and process for preparing same
By Schulz, J.G. / Cobler, J.A.
Assignee: Gulf Research & Development Company, April 1981, 5p., 44/51, C10L 1/18, Patent: United-States, 4 261 701, Jan. 1980, Appl. 110 ,798, April 1981
Report No.: p. 4 261 701

0681 104 Article, Combustion

Products of the thermal degradation of brown coal modified with calcium hydroxide
By Gankina, L.V. / Tishkova, O.P. / Zegil'skii, D.S. / Sukhov, V.A. / Bychev, M.I. / Lukovnikov, A.F.
Solid Fuel Chem, Vol. 15, No. 3, p. 36-43, 1981

0681 105 Article, Combustion

Multiplicity patterns in atmospheric fluidized bed coal combustors
By Congalidis, J.P. / Georgakis, C. Massachusetts Institute of Technology, Cambridge, Massachusetts
Chem Eng Sci, Vol. 36, No. 9, p. 1529-1546, 1981

0681 106 Article, Combustion, Geology

Development of the Genesee power project
By Mulder, D.C. Edmonton Power, Edmonton, Alberta
CIM Bulletin (1974), Vol. 74, No. 832, p. 68-72, 1981

0681 107 Article, Combustion, Environment

Extracting alumina from anthracite coal waste
By Hsieh, H.P. Alcoa Laboratories, Alcoa-Center, Pennsylvania
Chem Eng Prog, Vol. 77, No. 9, p. 80-82, 1981

0681 108 Article, Combustion

Flexibility of scale in large conventional coal fired power plants
By Schroeder, C.H. / Wiggins, L.L. / Wormhoudt, D.T. MAP Inc., Berkeley, California
Energy Policy, Vol. 9, No. 2, p. 127-135, June 1981

0681 109 Article, Combustion

Dependence of the rate of thermal treatment of coal polymer blanks on the heat of the transition of a polymer with a cross linked structure into coke
By Antonov, A.N. / Vorob'eva, N.F. / Zhdanova, G.K. / Fedoseev, S.D.
Solid Fuel Chem, Vol. 15, No. 3, p. 131-135, 1981

0681 110 Article, Combustion, Geology

Forecasting the grain size composition of caking coals from their geological and genetic characteristics
By Borisov, K.P. / Eremin, I.V.
Solid Fuel Chem, Vol. 15, No. 3, p. 99-109, 1981

0681 111 Article, Combustion

Comparative investigation of the process of thermal destruction of petroleum and hard coal pitches and fractions of them
By Demidova, A.I. / Doroginina, L.E. / Stankevich, V.V.
Solid Fuel Chem, Vol. 15, No. 3, p. 95-98, 1981

0681 112 Article, Combustion

Fluidized bed char combustion diffusion limited models
By Bukur, D.B. / Amundson, N.R. University of Houston, Houston, Texas
Chem Eng Sci, Vol. 36, No. 7, p. 1239-1256, 1981

0681 113 Article, Combustion

Heat transfer scaling laws for MHD channels and diffusers
By Ahluwalia, R.K. / Im, K.H. Argonne National Laboratory, Argonne, Illinois
J Energy, Vol. 5, No. 5, p. 315-320, 1981

0681 114 Conference proceedings, Combustion, Environment

Performance characteristics of low rank coals in atmospheric fluidized bed combustion
By Talty, R.D. / Hajicek, D.R. / Jones, M.L. / Sears, D.R. Grand-Forks Energy Technology Center, Grand-Forks, North-Dakota
Proc Intersoc Energy Convers Eng Conf, 16th, Vol. 2, Altanta, Georgia, Aug. 9/14, 1981, 1981

0681 115 Conference proceedings, Combustion

Tennessee Valley Authority 20 MW AFBC pilot plant design features and test program TVA/OP/ED&T - 81/32
By Bass, J.W. / Lutz, R.G. / Spoons, S.M. Fourroux, J.D.
Proc Intersoc Energy Convers Eng Conf, 16th, Vol. 2, Atlanta, Georgia, Aug. 9/14, 1981, 1981

0681 116 Report, Combustion

Atmospheric fluidized bed combustion
University of Kentucky, Lexington, Kentucky
Annual Report - A Kentucky Energy Resource Utilization Program, July 1, 1980-June 30, 1981, 1981
Report No.: IMMR 81/061

0681 117 Conference proceedings, Combustion

Pulverized coal combustion detection using crosscorrelation techniques
By Longrigg, P. Solar Energy Research Institute, Golden, Colorado
Proc Intersoc Energy Convers Eng Conf, 16th, Vol. 2, Atlanta, Georgia, Aug. 9/14, 1981, 1981

0681 118 Conference proceedings, Combustion

Combustion of solvent refined coal in a 100 HP firetube boiler
By Pan, Y.S. / Bellas, G.T. / Wieczenski, D.E. / Snedden, R.B. / Joubert, J.I. / Hart, D.R. / Foster, E.P. / Ingham, T.G.
Pittsburgh Energy Technology Center, Pittsburgh, Pennsylvania
Proc Intersoc Energy Convers Eng Conf, 16th, Vol. 2, Atlanta, Georgia, Aug. 9/14, 1981, 1981

0681 119 Conference proceedings, Combustion

Dispersion, mass transfer and chemical reaction in multiphase systems. 1. Theoretical developments
By Hatton, T.A. / Lightfoot, E.N. University of Wisconsin, Madison, Wisconsin
AIChE Annual Meeting, New-Orleans, Louisiana, Nov. 8/12, 1981, 40p., 1981

0681 120 Article, Combustion

New fuels for old
By Lihach, N.
EPRI J, Vol. 6, No. 3, p. 6-12, 1981

0681 121 Article, Combustion

A thermochemical investigation of the low temperature oxidation of heat treated coals
By Neshin, Y.I. / Sukhov, V.A. / Davydiva, Z.A. / Lukovnikov, A.F.
Solid Fuel Chem, Vol. 15, No. 2, p. 36-43, 1981

0681 122 Article, Combustion

A furnace wall ash monitoring system for coal fired boilers
By Chambers, A.K. / Wynnyckyj, J.R. / Rhodes, E. University of Waterloo, Waterloo, Ontario
J Eng Power Trans ASME, Vol. 103, No. 3, p. 532-538, July 1981

0681 123 Article, Combustion

Single, particle size model for sulfur retention in fluidized bed coal combustors
By Lee, D.C. / Georgakis, C. Massachusetts Institute of Technology, Cambridge, Massachusetts
AIChE J, Vol. 27, No. 3, p. 472-481, May 1981

0681 124 Article, Combustion

Stop tube corrosion and wear in coal fired power boilers
By Meringolo, V.
Power, Vol. 125, No. 5, p. 107-110, May 1981

0681 125 Article, Combustion

Use of coal/oil mixtures as an industrial fuel
By Hawkins, G.R. CoaLiquid, Inc., Louisville, Kentucky
Natl Eng., Vol. 85, No. 1, p. 2-7, 1981

0681 126 Article, Combustion

R&D Status Report, Coal combustion systems division
By Yeager, K.
EPRI Journal, Vol. 4, p. 42-44, April 1981

0681 127 Article, Combustion

How to make fiberglass bags last longer on coal fired boilers
By Miller, R.L.
Power, Vol. 125, No. 8, p. 78-80, Aug. 1981

0681 128 Article, Combustion

Operation and maintenance of coal fired boiler plant, Part II: Charcteristics of mechanical stokers
By Byrne, L.S.
Heat Vent Eng, Vol. 55, No. 637, p. 20-22, May 1981

0681 129 Article, Combustion

Convective and radiative heat transfer in MHD radiant boilers
By Im, K.H. / Ahluwalia, R.K. Argonne National Laboratory, Argonne, Illinois
J Energy, Vol. 5, No. 5, p. 308-314, 1981

0681 130 Article, Combustion

Carbon fines production and elutriation from the bed of a fluidized coal combustor
By Donsi, G. / Massimilla, L. / Miccio, M. Instituto di Chimica Industriale e Impianti Chemici, Napoli, Italy
Combust Flame, Vol. 41, No. 1, p. 57-69, April 1981

0681 131 Article, Combustion

Cenospheres in fly ash and conditions favouring their formation
By Lauf, R.L. Oak-Ridge National Laboratory, Oak-Ridge, Tennessee
Fuel, Vol. 60, No. 12, p. 1177-1179, 1981

0681 132 Article, Combustion

Development of an aerodynamic levitation technique to study coal particle combustion
By Peck, R.E. / Pollock, M.A. University of Kentucky, Lexington, Kentucky
Fuel, Vol. 60, No. 8, p. 727-731, Aug. 1981

0681 133 Article, Combustion

Distribution of sulfur within a burning fixed bed of coal char
By Bass, D. / Freund, H. / Lyon, R.K. Exxon Research and Engineering Company, Linden, New-Jersey
Combust Flame, Vol. 42, No. 1, p. 101-104, 1981

0681 134 Article, Combustion

Erosion mechanism in ductile metals
By Bellman, R. / Levy, A. Lawrence Berkeley Laboratory, Berkeley, California
Wear, Vol. 70, No. 1, p. 1-27, 1981

0681 135 Article, Combustion

How two electric utilities are gearing up for coal conversion

Power, Vol. 125, no. 5, p. 103-106, May 1981

0681 136 Article, Combustion, Environment

Influence of foreign materials upon the thermal decomposition of dolomite, calcite and magnesite. Part III. The effect of the thermal dissociation and sulphation conditions on the capture of sulphur dioxide
By Wieczorek-Ciurowa, K. / Paulik, F. / Paulik, J. Technical University of Cracow, Cracow, Poland
Thermochim, Acta, Vol. 46, No. 1, p. 1-8, 1981

0681 137 Article, Combustion

Hopper heating systems: Key to minimizing flyash plugging
By Bylin, R.
Power, Vol. 125, No. 6, p. 106-109, June 1981

0681 138 Article, Combustion

Development of a melt down process with combined direct reduction using any type of fine coal
By Hartwig, J. / Neuschutz, D. / Radke, D. / Seelig, H.F. Krupp Forschungsinst, Essen, Germany
MPT Metall Plant Technol, Vol. 4, No. 3, 8p., 1981

0681 139 Article, Combustion

Technical and economic aspects of coal injection at blast furnace tuyeres
By Fletcher, L.N. Armco, Ashland, Kentucky
Ind Heat, Vol. 48, No. 8, p. 8-9, Aug. 1981

0681 140 Article, Combustion

The use of coal in cement works.
By Bonora, G.
Cemento, Vol. 78, No. 1, p. 3-22, 1981

0681 141 Article, Combustion

Weighfeeding of coal dust for direct injection into furnace nozzle
By Freres, H.
Ind Ceram, Vol. 749, p. 266-270, 1981

0681 142 Conference proceedings, Combustion, Transportation

Coal oil mixture firing direct from slurry transported coal
By Forney, R. Stearns Roger Inc., Denver, Colorado
Sixth International Technical Conf on Slurry Transportation, Las-Vegas, Nevada, March, 1981, p. 213-217, 1981

0681 143 Conference proceedings, Combustion, Transportation

The development of coal water slurries as a boiler fuel
By Henderson, C.B. / Scheffee, R.S. Atlantic Research Corporation, Alexandria, Virginia
Sixth International Technical Conf on Slurry Transportation, Las-Vegas, Nevada, March, 1981, p. 218-225, 1981

0681 144 Conference proceedings, Combustion

Coal/oil mixture experience at Florida power & light company
By Gilbert, B.F. / Jackson, G.E. Florida Power & Light Company, Miami, Florida
Sixth International Technical Conf on Slurry Transportation, Las-Vegas, Nevada, March, 1981, p. 226-235, 1981

0681 145 Conference proceedings, Combustion, Transportation

Coal's role in meeting world energy needs
By Coleman, L.R. Skadden, Arps, Slate, Meagher & Flom, Washington, District-of-Columbia
Sixth International Technical Conf on Slurry Transportation, Las-Vegas, Nevada, March, 1981, p. 236-239, 1981

0681 147 Article, Combustion

Operation of coke oven with coal preheated by precarbon system
By Suzawa, A. / Kamoya, H. / Mikuni, O. / Noguchi, N. / Matsuoka, H. Nippon Steel Corporation, Toyko, Japan
Trans Iron Steel Inst, Vol. 21, No. 3, p. 211-217, 1981

0681 148 Article, Combustion

Observation of the behavior of coal particles during thermal decomposition
By Samuelsen, G.S. / Trolinger, J.D. / Heap, M.P. / Seeker, W.R. University of California, Irvine, California
Combust Flame, Vol. 40, No. 1, p. 7-12, Jan. 1981

0681 149 Conference proceedings, Combustion

A model for large scale atmospheric fluidized bed combustors
By Park, D. / Levenspiel, O. / Fitzgerald, T.J. Oregon State University, Corvallis, Oregon
AIChE Symp Ser, No. 205, Vol. 77, Recent Adv in Fluid and Fluid-Part Syst, p. 116-126, 1981

0681 150 Conference proceedings, Combustion

Application of an interim fluidized bed combustor system model and an interim fluidized bed combustor data base management system to plant design
By Tung, S.E. / Hodges, J. / Louis, J.F. Massachusetts Institute of Technology, Cambridge, Massachusetts
AIChE Symp Ser, No. 205, Vol. 77, Recent Adv in Fluid and Fluid-Part Syst, p. 127-138, 1981

0681 151 Conference proceedings, Combustion

A model of the fluid mechanics in fluidized bed combustors
By Glicksman, L.R. / Lord, W. / Valenzuela, J. / Bar-Cohen, A. / Hughes, R. Massachusetts Institute of Technology, Cambridge, Massachusetts
AIChE Symp Ser, No. 205, Vol. 77, Recent Adv in Fluid and Fluid-Part Syst, p. 139-147, 1981

0681 152 Conference proceedings, Combustion

Bed expansion studies and slugging characteristics in a pressurized fluidized bed of large particles
By Miller, G. / Kolar, A. / Hakim, S. / Zakkay, V. New-York University, New-York, New-York
AIChE Symp Ser, No. 205, Vol. 77, Recent Adv in Fluid and Fluid-Part Syst, p. 166-173, 1981

0681 153 Conference proceedings, Combustion

Heat transfer to cooling coils in the splash zone of a pressurized fluidized bed combustor
By Byam, J. / Pillai, K.K. / Roberts, A.G. United-States Department of Energy, Washington, District-of-Columbia
AIChE Symp Ser, No. 205, Vol. 77, Recent Adv in Fluid and Fluid-Part Syst, p. 351-358, 1981

0681 154 Conference proceedings, Combustion

On coal conversion with a variable pressure combustor
By Roy, G.D. / Lanier, J.H. / Vidyasagar, N.S. University of Tennessee, Tullahoma, Tennessee
AIChE Symp Ser, No. 205, Vol. 77, Recent Adv in Fluid and Fluid-Part Syst, p. 191-198, 1981

0681 155 Report, Combustion, Environment

Combustion performance and sulphur capture during fluid bed combustion of a western sub bituminous coal and an eastern bituminous coal
By Stover, N.S. / Anthony, E.J. / Desai, D.L. / Friedrich, F.D. Canadian Combustion Research Laboratory, Ottawa, Ontario
CANMET 24p., Aug. 1981
Report No.: ERP/ERL 81-36

0681 157 Article, Combustion, Properties

Reading the composition of coal

Combustion, Vol. 52, No. 10, p. 16-19, April 1981

0681 158 Report, Combustion

An investigation of slurry fuel combustion - Final Report
By Szekely, G.A. / Faeth, G.M. Pennsylvania State University, University-Park, Pennsylvania, 1981
Report No.: AFWAL-TR-80-2125

0681 159 Article, Combustion, Environment

Flue gas treatment system for coal fired thermal power plants
By Segawa, T. / Ishikawa, T. / Ohtsubo, T. / Tamaru, T. / Kanamori, A.
IHI Eng Rev (Engl Ed), Vol. 14, No. 1, p. 34-42, Jan. 1981

0681 160 Article, Combustion

Switching from oil to coal firing for steam raising: A case study at a large industrial site
By Skea, J.F. Carnegie-Mellon University, Pittsburgh, Pennsylvania
Energy Policy, Vol. 9, No. 3, p. 205-215, Sept. 1981

0681 161 Report, Combustion, Environment, Transportation, Mining, Beneficiation

Fuel cycle analysis for fossil energy systems: coal combustion
By Greenstreet, W..L. / Carmichael, R.L. Oak-Ridge National Laboratory, Oak-Ridge, Tennessee
NTIS, United-States Department of Commerce, 392p., 1981
Report No.: ORNL-5661

0681 163 Conference proceedings, Combustion

Industrial fluidized bed steam generation
By Lutes, I.G. Foster Wheeler Energy Corporation, Livingston, New-Jersey
Pap Pres at The Can Inst of Energy Symp, Toronto, Ontario, Nov. 18, 1981, 23p., 1981

0681 164 Report, Combustion

A coal and ash blend analysis of a bituminous and a subbituminous coal
By Bruns, J.M. Iowa State University, Ames, Iowa
NTIS, United-States Department of Energy, 236p., 0191
Report No.: DOE/TIC-11440

0681 165 Report, Combustion, Environment

Development of the Adiabatic reformer to Process No. 2 Fuel oil and coal derived liquid fuels
By Houghtby, W.E. / Buswell, R.F. / Bett, J.A. / Lesieur, R.R. / Meyer, A.P. / Preston, J.L. / Setzer, H.J. United Technologies Corporation, South-Windsor, Connecticut
NTIS, United-States Department of Energy, 82p., 1981
Report No.: EPRI-EM-1701

0681 166 Report, Combustion, Environment

Evaluation of the sulfur sorption properties of chemically improved limestones during fluidized bed combustion

By Grimm, U. Morgantown Energy Technology Center, Morgantown, West-Virginia
NTIS, United-States Department of Energy, 84p., 1981
Report No.: DOE/METC/RI-128

0681 167 Article, Combustion

A study of the factors responsible for the evolution of gas from burning waste rock dumps of coal pits and enrichment factories
By Saranchuk, V.I. / Buratsova, O.A. / Galushko, A.G. / Galushko, L.Y.
Solid Fuel Chem, Vol. 15, No. 5, p. 89-93, 1981

0681 168 Article, Combustion, Environment

Development of pulverized coal fired low NOx PM burner
By Takahashi, Y. / Kunimoto, T. / Tokuda, K. / Kawamura, T. / Kaneko, S. Nagasaki Technical Institute, Nagasaki, Japan
Tech Rev - Mitsubishi Heavy Ind, Vol. 18, No. 3, p. 199-210, 1981

0681 169 Article, Combustion

Fluidized bed combustion at Georgetown University
By Gamble, R.L. / McCloy, W.J.
Coal Min Process, Vol. 18, No. 9, p. 84-85, 88-90, 1981

0681 170 Article, Combustion

Coal firing systems in tunnel kilns
By Riedel, R.
Ziegelindustrie Int, No. 10, p. 564-567, 1981

0681 171 Report, Combustion, Gasification

Assessment of pulverized coal fired combustor performance, models for coal combustion performance: analytical tool verification topical report
By Richter, W. Energy and Environmental Research Corporation, Santa-Ana, California
Pittsburgh Energy Technology Center, 96p., 1981
Report No.: DOE/PC/30297-T2

0681 172 Report, Combustion

Coal and limestone feed testing for atmospheric fluidized bed combustion
By Daw, C.S. / Thomas, J.F. / Lackey, M.E. Oak-Ridge National Laboratory, Oak-Ridge, Tennessee
United-States Department of Energy, 78p., 1981
Report No.: ORNL-7724

0681 173 Report, Combustion, Environment

Environmental effects of pollutants from coal combustion: 1. The four corners power plant, Farmington, NM
By Pueschel, R.F. / Mamane, Y. / Van-Valin, C.C. / Cobb, W.E. / Parungo, F.P. / Wellman, D.L. NOAA, Environmental Research Laboratories, Boulder, Colorado
United-States Environmental Protection Agency, 84p., April 1981
Report No.: ERL OWRM-2

0681 175 Report, Combustion, Environment

Environmental effects of pollutants from coal combustion: 2. The Colstrip, Montana, Power Plant
By Van-Valin, C.C. / Pueschel, R.F. / Wellman, D.L. NOAA, Environmental Research Laboratories, Boulder, Colorado
United-States Environmental Protection Agency, 68p., April 1981
Report No.: ERL OWRM-3

0681 176 Patent, Combustion

Fluidized bed reactor
By De-Feo, A. Curtiss-Wright Corporation, Wood-Ridge, New-Jersey
Assignee: Curtis-Wright Corporation, Sept. 1981, 10p., 422/143, B0J 8/08, Patent: United-States, 4 287 156, May 1980, Appl. 151 385, Sept. 1981
Report No.: p. 4 287 156

0681 177 german Article, Combustion

NO//x free combustion in pulverized coal tangential firing - NO//x Arme ferbrennung bei kohlenstaub tangentialfeuerungen
By Reidick, H.
VGB Kraftwerkstech, Vol. 61, No. 9, p. 747-750, Sept. 1981

0681 178 Article, Combustion

Optimization of the oxidation of the peat residue after hydrolysis
By Kosonogova, L.V. / Rakovskii, V.E. / Nefedov, N.P.
Solid Fuel Chem, Vo. 15, No. 6, p. 36-39, 1981

0681 179 Report, Combustion

Modeling of fluidized bed combustion of coal: Final Reports, Volume I. Model evolution and development
By Louis, J.F. / Tung, S.E. Massachusetts Institute of Technology, Cambridge, Massachusetts
United-States Department of Energy, 123p., Oct. 1980
Report No.: DOE/ET/10701-T1

0681 180 Report, Combustion

Materials problems in fluidized bed combustion systems
By Minchener, A.J. / Sutcliffe, P.T. / Read, D.C. / Golesworthy, T.J. / Lloyd, D.M. / Scott, I.S. / Courtney, R.S. / Holder, R.G. National Coal Board, Cheltenham, Gloucestershire, United-Kingdom
EPRI, 346p., May 1981
Report No.: EPRI-CS-1853

0681 181 Report, Combustion, Environment

Pilot scale development of a low NO//x coal fired tangential system
By Kelly, J.T. / Brown, R.A. / Chu, E.K. / Wightman, J.B. / Pam, R.L. / Swenson, E.L. / Merrick, E.B. / Busch, C.F.
Acurex Corporation, Mountain-View, California
EPA, 239p., 1981
Report No.: PB81-242251 3

0681 182 Conference proceedings, Combustion, Gasification

Fundamental research in coal combustion: what use is it?
By Essenhigh, R.H. Ohio State University, Columbus, Ohio
AIP Conf Proc, Vol. 70, No. (Chem Phys Coal Util-1980), p. 309-331, 1981

0681 183 Article, Combustion

Rivesville multicell fluidized bed boiler - Topical Report: Fuller Feed System test program
Pope, Evans and Robbins, Inc., New-York, New-York
United-States Department of Energy, 83p., March 1981
Report No.: DOE/MC/16230-156

0681 184 Patent, Combustion

Solids Fuel/Oil Suspensions
By Veal, C.J. / Wall, D.R. British Petroleum Company Limited, London, United-Kingdom
Assignee: British Petroleum Company Limited, June 1981, 4p., C10L 1/32, Patent: United-Kingdom, 2 064 580 A, Dec. 1980, Appl. 8038779, June 1981
Report No.: p. 2 074 580 A

0681 185 Patent, Combustion

Solid fuel/oil dispersions containing metallo porphyrins as stabilisers
By Veal, C.J. / Wall, D.R. / Whitehead, E.V. British Petroleum Company Limited, London, United-Kingdom
Assignee: British Petroleum Company Limited, Sept. 1981, 4p., C10L 1/32, Patent: United-Kingdom, 2 071 141 A, Feb. 1981, App. 8104163, Sept. 1981
Report No.: p. 2 071 141 A

0681 186 Patent, Combustion, Environment

Process for the combustion of coal in the presence of calcium containing material (Reducing SO//2 emission)
By Nozaki, K. / Gale, L.H. Shell International Research, Hague, Netherlands
Assignee: Shell Internationale, Dec. 1981, 6p., C10L 10/00, Patent: United-Kingdom, 2 076 851 A, May 1981, Appl. 8116109, Dec. 1981
Report No.: p. 2 076 851

0681 187 Patent, Combustion

Fluidized bed combustor
Energy Resources Company, Inc., Cambridge, Massachusetts
Assignee: Energy Resources, Oct. 1981, 9p., B01J 8/24, 8/34, Patent: Britain, 1 601 067, June 1977, Appl. 23762/78, Oct. 1981
Report No.: p. 1 601 067

0681 188(*) Conference proceedings, Combustion, Environment

Coal Technology '81, Vol. 3

Fourth Annual Coal Utilization Exhibition & Conference, Vol. 3, Houston, Texas, Nov. 17/19, 1981, 280p., 1981

0681 189(*) Conference proceedings, Combustion, Gasification, Beneficiation

Coal Technology '81, Vol. 5

Fourth Annual Coal Utilization Exhibition & Conference, Vol. 5, Houston, Texas, Nov. 17/19, 1981, 351p., 1981

0681 190 Conference proceedings, Combustion

Design of large coal fired boilers for Canadian electric utilities an update
By Natarajan, M. / Fang, P.S. Montreal Engineering Company Limited, Montreal, Quebec
Proc of the 64th CIC Coal Symp, Halifax, Nova-Scotia, May 31-June 3, 1981, Vol. 1, p. 311-318, 1981

0681 191 Conference proceedings, Combustion, Beneficiation

Grinding of coal slurries with the Szego mill
By Trass, O. / Papachristodoulou, G. / Gandolfi, E.A. / Rouse, J.D. University of Toronto, Toronto, Ontario
Proc of the 64th CIC Coal Symp, Halifax, Nova-Scotia, May 31-June 3, 1981, Vol. 1, p. 235-243, 1981

0681 192 Conference proceedings, Combustion, Beneficiation

Upgrading of inert rich oxidized coal from western Canada with reducing gases to improve combustion performance
By Nandi, B.N. / MacPhee, J.A. / Ciavaglia, L.A. / Chornet, E. / Arsenault, R. Energy Research Laboratories, Ottawa, Ontario
Proc of the 64th CIC Coal Symp, Halifax, Nova-Scotia, May 31-June 3, 1981, Vol. 1, p. 319-323, 1981

0681 193 Conference proceedings, Combustion

The economic value of coal for coal fired power stations
By Swanson, A.R. / Taggart, I.J. / Wood, D.L. Broken Hill Proprietary Company Limited, NSW, Australia
Proc of the 64th CIC Coal Symp, Halifax, Nova-Scotia, May 31-June 3, 1981, Vol. 1, p. 324-329, 1981

0681 194(*) Conference proceedings, Combustion, Environment

Proceedings of the joint symposium on stationary combustion NO//x control, Volume 2

Electric Power Research Institute, Palo-Alto, California, May 1981

0681 195 Conference proceedings, Combustion

Recovery of alumina from coal rejects
By Hamer, C.A. Energy, Mines and Resources Canada, Ottawa, Ontario
Proc of the 64th CIC Coal Symp, Halifax, Nova-Scotia, May 31-June 3, 1981, Vol. 2, p. 546-549, 1981

0681 196 Conference proceedings, Combustion

The assessment of metallurgical coke and coal in relating to blast furnace practice
By Okuyama, Y. / Yanagiuchi, M. / Miyazu, T. / Okada, Y. NKK, Kawasaki, Japan
Proc of the 64th CIC Coal Symp, Halifax, Nova-Scotia, May 31-June 3, 1981, Vol. 2, p. 577-584, 1981

0681 197 Conference proceedings, Combustion, Environment

Trace elements and organics associated with coal combustion in power plants: emissions and environmental impacts
By Freedman, B. Dalhousie University, Halifax, Nova-Scotia
Proc of the 64th CIC Coal Symp, Halifax, Nova-Scotia, May 31-June 3, 1981, Vol. 2, p. 616-631, 1981

0681 198 Conference proceedings, Combustion

The development of a microprocessor based system to analyze and control fossil fuel combustion
By Murray, T.M. / McCollum, L. University of Louisville, Louisville, Kentucky
Conf Proc, IEEE Southeastcon, p. 339-340, 1981

0681 199 Conference proceedings, Combustion

Preparation and burning of coal/water slurry
By McHale, E.T. / Scheffee, R.S. / Rossmeissl, N.P. / Boyd, T.J. / Henderson, C.B. Atlantic Research Corporation, Alexandria, Virginia
Proc of the 64th CIC Coal Symp, Halifax, Nova-Scotia, May 31-June 3, 1981, Vol. 1, p. 335-340, 1981

0681 200 Conference proceedings, Combustion

Investigation of coal water mixtures
By Barsin, J.A. Babcock & Wilcox Company, Barberton, Ohio
Proc of the 64th CIC Coal Symp, Halifax, Nova-Scotia, May 31-June 3, 1981, Vol.1, p. 341-347, 1981

0681 201 Conference proceedings, Combustion

The effect of coal rank on the heat release from coal/oil dispersions
By Jenkins, B.G. / Alabaf, J.S. / Patterson, M.C. / Moles, F.D. University of Surrey, Surrey, United-Kingdom
Proc of the 64th CIC Coal Symp, Halifax, Nova-Scotia, May 31-June 3, 1981, Vol. 1, p. 348-356, 1981

0681 202 Conference proceedings, Combustion

Combustion of water oil coal mixtures in a commercial scale boiler
By Akers, D.A. / Murray, T.M. University of Louisville, Louisville, Kentucky
Proc of the 64th CIC Coal Symp, Halifax, Nova-Scotia, May 31-June 3, 1981, Vol. 1, p. 357-359, 1981

0681 203 Conference proceedings, Combustion

Combustion of coal suspension fuels with Hartmann atomizers
By Kranc, S.C. University of South-Florida, Tampa, Florida
Proc of the 64th CIC Coal Symp, Halifax, Nova-Scotia, May 31-June 3, 1981, Vol.1. 1, p. 360-365, 1981

0681 204 Conference proceedings, Combustion

Fluidized bed combustion for the production of process heat, steam and electricity
By Finlayson, P.C. Coal Processing Consultants Limited, Harrow, United-Kingdom
Proc of the 64th CIC Coal Symp, Halifax, Nova-Scotia, May 31-June 3, 1981, Vol. 1, p. 366-372, 1981

0681 205 Conference proceedings, Combustion

Design features of TVA's atmospheric fluidized bed combustion 20 MW pilot plant
By Golden, J.L.
Proc of the 64th CIC Coal Symp, Halifax, Nova-Scotia, May 31-June 3, 1981, Vol. 1, p. 373-380, 1981

0681 206 Conference proceedings, Combustion

Development support by ORNL for TVA AFCB pilot plant
By Holcomb, R.S. / Lackey, M.E. / Daw, C.S. / Zimmerman, G.P. Oak-Ridge National Laboratory, Oak-Ridge, Tennessee
Proc of the 64th CIC Coal Symp, Halifax, Nova-Scotia, May 31-June 3, 1981, Vol. 1, p. 381-389, 1981

0681 207 Conference proceedings, Combustion

Fluidized bed combustion meeting energy needs of the future
By Norcross, W.R. / Zielinski, E.A. Combustion Engineering, Inc., Windsor, Connecticut
Proc of the 64th CIC Coal Symp, Halifax, Nova-Scotia, May 31-June 3, 1981, Vol. 1, p. 390-398, 1981

0681 208 Conference proceedings, Combustion, Environment

Controlling emissions with fluidized bed combustion
By Buck, V.E. / Claypoole, G.T. Pope, Evans and Robbins, Inc., New-York, New-York
Proc of the 64th CIC Coal Symp, Halifax, Nova-Scotia, May 31-June 3, 1981, Vol. 1, p. 407-413, 1981

0681 209 Conference proceedings, Combustion

Fluidized bed combustion: a viable alternative for residential heating
By Trivett, G.S. / Al-Taweel, A.M. / MacKay, G.D. Technical University of Nova-Scotia, Halifax, Nova-Scotia
Proc of the 64th CIC Coal Symp, Halifax, Nova-Scotia, May 31-June 3, 1981, Vol. 1, p. 414-421, 1981

0681 210 Conference proceedings, Combustion, Environment

Western Canadian US coal blending tests: effects of blending on high temperature and low temperature deposition rates
By Dooley, R.B. / Chacinski, V. Ontario Hydro, Toronto, Ontario
Proc Am Power Conf, Vol. 43, p. 106-111, 1981

0681 211 Conference proceedings, Combustion, Properties

Examining relationships between coal characteristics and the performance of TVA power plants Part 2: boiler efficiency
By Barrett, R.E. / Mack, G.A. / Frank, R.L. Battelle Columbus Laboratories, Columbus, Ohio
Proc Am Power Conf, Vol. 43, p. 112-119, 1981

0681 212 Conference proceedings, Combustion

Technoeconomic evaluation of coal/liquid/mixtures as utility fuels
By Al-Taweel, A.M. Technical University of Nova-Scotia, Halifax, Nova-Scotia
Proc of the 64th CIC Coal Symp, Halifax, Nova-Scotia, May 31-June-3, 1981, Vol. 1, p. 330-334, 1981

0681 213 Conference proceedings, Combustion

Characterization of coal fired indirectly heated gas turbines for cogeneration applications
By Hamm, J.R. / Weeks, K.D. Westinghouse Electric Corporation, Pittsburgh, Pennsylvania
Proc Am Power Conf, Vol. 43, p. 1015-1023, 1981

0681 214 Conference proceedings, Combustion

Cost effective utilization of waste heat in coal fired power plants
By Holland, R.J. / Powell, D.R. / Bush, C.T. Morrison-Knudsen Company Incorporated, Boise, Idaho
Proc Am Power Conf, Vol. 43, p. 1056-1062, 1981

0681 215 Conference proceedings, Combustion

Zero discharge water management system
By Pasricha, A. / Jain, S.K. Fluor Power Services, Inc., Chicago, Illinois
Proc Am Power Conf, Vo. 43, p. 1152-1157, 1981

0681 216 Conference proceedings, Combustion

Performance of a bottom discharge blow vessel conveying pulverized fuel ash
By Lohrmann, P.C. / Marcus, R.D. University of Witwatersrand, Johannesburg, South-Africa
Part Technol, Symp in Conjunction with PowTech 81 Exhib, Birmingham, United-Kingdom, Mar 10-13, 1981, Publ by Inst of Chem Eng, Symp Ser No. 63, Warwickshire, United-Kingdom, p. D3/X/1-D3/X/13, 1981

0681 217 Conference proceedings, Combustion

Compressed air energy storage using coal fired fluidised bed combustors: a preliminary evaluation
By Merrick, D. / Lessard, R.D. / Giramonti, A.J. Coal Processing Consultants Limited, Harrow, United-Kingdom
IEE Conf Publ No. 192, Int Conf on Future Energy Concepts, 3rd, London, United-Kingdom, Jan. 27-30, 1981, p. 81-84, 1981

0681 218 Article, Combustion

An aerodynamic study of an operating tangential fired furnace
By Bianca, J.D. / Bauver, W.P. / McGowan, J.G. Combustion Engineering, Inc., Windsor, Connecticut
Fluid Mech Combust Syst, p. 51-63, 1981

0681 219 Article, Combustion

An artificial cooling pond for the Rio Escondido coal fired power plant
By Auvinet, G. / Hiriart, G.
Proc Symp Surf Water Impoundments, Vol. 2, Publ ASCE, p. 1089-1098, 1981

0681 220 Article, Combustion

Alloy corrosion in an atmospheric fluidized bed coal combustion test unit
By Daniel, P.L. / Stringer, J. Babcock & Wilcox Company, Alliance, Ohio
Mater Perform, Vol. 20, No. 9, p. 9-16, Sept. 1981

0681 221 Article, Combustion, Environment, Transportation, Environment, Combustion

Burlington Industries' program proves worth of shift to coal
By Schwieger, R.G. / O'Keefe, W.
Power, Vol. 125, No. 11, p. 57-66, Nov. 1981

0681 222 Article, Combustion

Coal blending theory - retrospect and prospect .
By Miura, Y / Okuhara, T. / Nishi, T. / Yamaguchi, T. / Haraguchi, H.
Trans Iron Steel Inst (Japan), Vol. 21, No. 7, p. 518-529, 1981

0681 223 Article, Combustion

Coal/oil mixtures are ready to go
By Baur, P.S.
Power, Vol. 125, No. 12, p. 44-47, Dec. 1981

0681 224 Patent, Combustion, Beneficiation

Reduction of the fouling potential of high sodium coal
By Curtin, D.J. Atlantic Richfield Company, Los-Angeles, California
Assignee: Atlantic Richfield Company, May 1981, 3p., 44/1 R, C10L 9/00, Patent: United-States, 4 268 271, Nov. 1979, Appl. 97 116, May 1981
Report No.: p. 4 268 271

0682 0 Article, Combustion

Alkali ash reactions and deposit formation in pulverized coal fired boilers: the thermodynamic aspects involving silica, sodium, sulphur, and chlorine
By Wibberley, L.J. / Wall, T.F. University of Newcastle, Newcastle, Australia
Fuel, Vol. 61, No. 1, p. 87-92, 1982

0682 1 Article, Combustion

Alkali ash reactions and deposit formation in pulverized coal fired boilers: experimental aspects of sodium silicate formation and the formation of deposits
By Wibberley, L.J. / Wall, T.F. University of Newcastle, Newcastle, Australia
Fuel, Vol. 61, No. 1, p. 93-99, 1982

0682 2 Article, Combustion

Studies on slag deposit formation in pulverized coal combustors. 3. Preliminary hypothesis for the sticking behaviour of slag drops on steels
By Moza, A.K. / Austin, L.G. Pennsylvania State University, University-Park, Pennsylvania

Fuel, Vol. 61, No. 2, p. 161-165, Feb. 1982

0682 3 Article, Combustion

Some effects of overheating and carbon burn off on the performance of fluidized bed combustors
By McCarthy, D.J. CSIRO, Division of Mineral Engineering, Victoria, Australia
Fuel, Vol. 61, No. 3, p. 298-302, 1982

0682 4 Article, Combustion

High temperature chlorination of coal ash in a fluidized bed. 1. Recovery of aluminum
By Mehrotra, A.K. / Behie, L.A. / Bishnoi, P.R. / Svrcek, W.Y. University of Calgary, Calgary, Alberta
Ind Eng Chem Process Des Dev, Vol. 21, No. 1, p. 37-44, 1982

0682 5 Article, Combustion

High temperature chlorination of coal ash in a fluidized bed. 2. Recovery of iron, silicon, and titanium
By Mehrotra, A.K. / Behie, L.A. / Bishnoi, P.R. / Svrcek, W.Y. University of Calgary, Calgary, Alberta
Ind Eng Chem Process Des Dev, Vol. 21, No. 1, p. 44-50, 1982

0682 6 Article, Combustion

Kinetic equations of mechanistic type with nonseparable variables for catalyst deactivation by coke. Models and data analysis methods
By Corella, J. / Asua, J.M. University of Zaragoza, Zaragoza, Spain
Ind Eng Chem Process Des Dev, Vol. 21, No. 1, p. 55-61, 1982

0682 7 Article, Combustion

Replacing refractory linings in fired heaters
By Neal, J.E. Manville Products Corporation, Denver, Colorado
Hydrocarbon Processing, Vol. 61, No. 1, p. 104-109, 1982

0682 8 Article, Combustion

Analysis of fly ash produced from combustion of refuse derived fuel and coal mixtures
By Taylor, D.R. / Tompkins, M.A. / Kirton, S.E. / Mauney, T. / Natusch, D.F. / Hopke, P.K. University of Illinois, Urbana, Illinois, 1982

0682 9 Article, Combustion

Control of carbon dioxide emissions from a power plant (and use in enhanced oil recovery)
By Horn, F.L. / Steinberg, M. Brookhaven National Laboratory, Upton, New-York

Fuel, Vol. 61, p. 415-422, May 1982

0682 10 Article, Combustion, Properties

Determination of the stability of coal oil mixtures (COM) by infrared analysis
By Benedetti, E. / Santini, R. / D'Alessio, A. / Vergamimi, P. Istituto di Chimica Organica Industriale dell'Universita' di Pisa, Pisa, Italy
Fuel, Vol. 61, p. 479-481, May 1982

0682 11 Conference proceedings, Combustion, Properties

The combustion properties of western Canadian coals
By Lee, G.K. / Friedrich, F.D. / Whaley, H. CANMET, Ottawa, Ontario
CIM 2nd Technical Conf on Western Canadian Coals, June 2-4, 1982, Edmonton, Alberta, 29p., 1982
Report No.: EPR/ERL 82-29

0682 12 Report, Combustion

The CFB Summerside project Canadian state of the art in AFBC boilers
By Taylor, M.E. / Friedrich, F.D. Energy, Mines and Resources Canada, Ottawa, Ontario
CANMET, 49p., April 1982
Report No.: ERP/ERL 82-10

0682 13 Article, Combustion, Environment

Model calculations of the chemical processes occurring in the plume of a coal fired power plant
By Meagher, J.F. / Luria, M. Tennessee Valley Authority, Muscle-Shoals, Alabama
Atmos Environ, Vol. 16, No. 2, p. 183-95, 1982

0682 14 Article, Combustion, Environment

Size distribution of fine particles from coal combustion
By McElroy, M.W. / Carr, R.C. / Ensor, D.S. / Markowski, G.R. Electric Power Research Institute, Palo-Alto, California
Science, Vol. 215, No. 4528, p. 13-19, 1982

0682 15 Conference proceedings, Combustion

Summerside - atmospheric fluidized bed boiler plant
By Detre, S. / Adams, P.J. Montreal Engineering Company Limited, Montreal, Quebec
Pap Pres at 9th Energy Technology Conf, Feb. 16/18, 1982, Washington, District-of-Columbia, 25p., 1982

0682 17 Report, Combustion

International energy technology assessment - atmospheric fluidized bed combustion
By Krishnan, R.P. / Johnsson, K.O. Oak-Ridge National Laboratory, Oak-Ridge, Tennessee
Oak-Ridge National Laboratory, 386p., April 1982
Report No.: ORNL/TM-8033 - NTIS

0682 18 Article, Combustion

Japanese challenge in coal combustion technology
By Nesbit, W.
EPRI Journal, Vol. 7, No. 4, p. 20-23, 1982

0682 19 Conference proceedings, Combustion, Gasification, Liquefaction

Char combustion and utilization
By Essenhigh, R.H. / Bailey, E.G. Ohio State University, Columbus, Ohio
Proc of Workshop on Application of Pyrolysis Technology to the Utilization of Eastern Canadian Coals, Fredericton, New-Brunswick, Jan. 5/6, 1982, p. 59-109, 1982

0682 20 Article, Combustion

A comparative study of the structure of burning sprays of Number 2 and SRC II fuel oils
By Gollahalli, S.R. / Lin, J.D. University of Oklahoma, Norman, Oklahoma
Combust Flame, Vol. 44, No. 1-3, p. 125-135, 1982

0682 21 Article, Combustion

Coal combustion systems division: R & D Status Report - Fan System Reliability

EPRI , p. 35-38, May 1982

0682 22 Article, Combustion, Environment

Dry scrubbing of SO//2
By Shah, N.D. Multi Mineral Corporation, Grand-Junction, Colorado
Chem Eng Prog, Vol. 78, No. 6, p. 43-46, June 0982

0682 23 Article, Combustion, Environment, Energy Policy

Particulate and SO//2 removal with wet scrubbers
By Brady, J.D. Andersen 2000 Incorporated, Atlanta, Georgia
Chem Eng Prog, Vol. 78, No. 6, p. 73-77, June 1982

0682 24 Article, Combustion, Energy Policy

Prospects rise and fall in COM market
By Sammons, D. McGraw-Hill World News, Ashland, Kentucky
Coal Age, Vol. 87, No. 5, p. 65-66, May 1982

0682 25 Article, Combustion, Mining

United fills the federal R&D void
By Green, P.
Coal Age, Vol. 87, No. 5, p. 70-76, May 1982

0682 26 Article, Combustion

Mathematical model of concentration distribution of a pulverized coal jet in a horizontal combustion chamber
By Raju, V.U. / De, D.S. / Sen, P. Indian Institute of Technology, Kharagpur, India
Combust Flame, Vol. 44, No. 1-3, p. 137-152, 1982

0682 27 Article, Combustion

Use chart to estimate furnace parameters
By Ganapathy, V. Bharat Heavy Electricals Ltd., Tiruchirapalli, India
Hydrocarbon Proc, Vol. 2, p. 106-107, Feb. 1982

0682 28 Article, Combustion

Technico economic potentialities of hydrogen utilization for steel production
By Astier, J. / Krug, J.C. / DeLassat-de-Pressigny, Y. Societe Francaise Des Minerals Prereduits, Paris, France
Int J Hydrogen Energy, Vol. 7, No. 8, p. 671-679, 1982

0682 29 Article, Combustion

Alternative routes to steel based on hydrogen from cheap hydroelectric power
By Antonioli, A. University of Rome, Rome, Italy
Int J. Hydrogen Energy, Vol. 7, No. 6, p. 507-517, 1982

0682 30 Article, Combustion, Beneficiation

Effect of coal quality on maintenance costs at utility plants
By Holt, E.C. Hoffman-Holt Inc., Silver-Spring, Maryland
Min Congr J, p. 48-54, May 1982

0682 31 Article, Combustion, Energy Policy

Liquid coal trickles into view
By Green, P.
Coal Age, Vol. 87, No. 6, p. 88-91, June 1982

0682 32 Conference proceedings, Combustion

Stirling engines for power production with coal and solid waste
By Walker, G. / Fauvel, R. / Srinivasan, V. / Gustafson, R. / van-Benthem, J. University of Calgary, Calgary, Alberta
CIM 33rd Annual Technical Meeting, 6th Symp, Calgary, Alberta, June 6-9, 1982, p. 85-92, 1982

0682 33 Article, Combustion, Gasification, Liquefaction

Modeling of shallow fluidized bed reactors. 1. Analytic solution of a simplified model
By Chang, C.C. / Fan, L.T. / Rong, S.X. Kansas State University, Manhattan, Kansas
Can J of Chem Eng, Vol. 60, No. 4, p. 272-281, April 1982

0682 34 Article, Combustion, Gasification

Fluidized bed char combustion kinetic models
By Bukur, D. / Amundson, N.R. University of Houston, Houston, Texas
Chem Eng Sci, Vol. 37, No. 1, p. 17-25, 1982

0682 35 Article, Combustion, Environment

Analysis of a filter bag reactor for gaseous pollution abatement
By Sachdev, A.K. / Narsimhan, G. Indian Institute of Technology, New-Delhi, India
Chem Eng J, Vol. 23, No. 2, p. 205-209, March 1982

0682 36 Article, Combustion, Gasification

A variable size grain model for gas solid reactions with structural changes
By Garza-Garza, O. / Dudukovic, M.P. Washington University, St.-Louis, Missouri
Chem Eng J, Vol. 24, No. 1, p. 35-45, May 1982

0682 37 Article, Combustion, Environment

The Wellman Lord SO//2 recovery process
By Leckner, P. / Pearson, R.O. / Wood, R.T. Davy McKee Corporation, Lakeland, Florida
Chem Eng Prog, Vol. 78, No. 2, p. 65-70, Feb. 1982

0682 38 Article, Combustion

Tests of explosion venting of buildings

By Howard, W.B. / Karabinis, A.H. Monsanto Company, St.-Louis, Missouri
Plant/Operations Prog, Vol. 1, No. 1, p. 51-65, Jan. 1982

0682 39 Article, Combustion

Coal devolatilization in fluidized bed combustors
By LaNauze, R.D. CSIRO, Division of Fossil Fuels, North-Ryde, Australia
Fuel, Vol. 61, No. 8, p. 771-774, Aug. 1982

0682 40 Article, Combustion

Studies on slag deposit formation in pulverized coal combustors. 4. Comparison of sticking behaviour of minerals and low temperature and ASTM high temperature coal ash on medium carbon steel substrates
By Abbott, M.F. / Austin, L.G. Pennsylvania State University, University-Park, Pennsylvania
Fuel, Vol. 61, No. 8, p. 765-770, Aug. 1982

0682 41 Article, Combustion, Environment

Plume model for sulphur capture in large scale, atmospheric fluidized bed combustors
By Park, D. / Levenspiel, O. Oregon State University, Corvallis, Oregon
Fuel, Vol. 61, No. 7, p. 578-586, July 1982

0682 42 Article, Combustion, Properties

Thermal decomposition and ignition of coal
By Vernekar, V.R. / Rao, J.R. / Rao, B.K. / Tirunarayanan, M.A. Indian Institute of Science, Bangalore, India
Fuel, Vol. 61, No. 7, p. 634-646, July 1982

0682 43 Article, Combustion

Fluidized bed freeboard phenomena: entrainment and elutriation
By Wen, C.Y. / Chen, L.H. West-Virginia University, Morgantown, West-Virginia
AIChE Journal, Vol. 28, No. 1, p. 117-128, Jan. 1982

0682 44 Article, Combustion, Gasification, Liquefaction

Simulation of particulate removal in gas solid fluidized beds
By Peters, M.H. / Fan, L.S. / Sweeney, T.L. Ohio State University, Columbus, Ohio
AIChE Journal, Vol. 28, No. 1, p. 39-49, Jan. 1982

0682 45 Patent, Combustion, Environment

Method of reducing sulfur emissions from brown coal fired boilers by addition of calcium based additive before combustion

By Hein, K. / Schiffers, A.
Assignee: Rheinisch-Westfalisches Elektrizitatswerk, Jan 1982, 179., CL:(C10L 910), Patent: Canada, 1 116 853, Feb. 1979, Appl. 321 281, Jan. 1982
Report No.: p. 1 116 853

0682 46 Report, Combustion, Environment, Gasification

Research results and applications
By Electric Power Research Institute, Palo-Alto, California
Electric Power Research Institute, Palo-Alto, California, 298p., June 1982
Report No.: EPRI RA-2349-SR

0682 47 Report, Combustion, Gasification, Environment

Technical assessment guide - Special Report
By Applegren, G.H. / Vejtasa, S.A. Electric Power Research Institute, Palo-Alto, California
Electric Power Research Institute, Palo-Alto, California, 384p., May 1982
Report No.: EPRI P-2410-SR

0682 48 Report, Combustion

Erosion of materials using recirculated coal liquid mixtures
By Al-taweel, A. Technical University of Nova-Scotia, Halifax, Nova-Scotia
National Research Council Canada, 27p., 1982
Report No.: NRCC-19915

0682 49 Report, Combustion

Erosion resistant ceramics for coal utlization
By Kazi, A. / Whiteway, S.G. Nova-Scotia Research Foundation Corporation, Halifax, Nova-Scotia
National Research Council Canada, 15p., 1982
Report No.: NRCC-19914

0682 50 Conference proceedings, Combustion, Environment

Coal: key to flexibility
By Campbell, P.G. Ontario Hydro, Toronto, Ontario
The Coal Association of Canada 34th Conf on Coal, Sept. 19-21, 1982, Toronto, Ontario, 21p., 1982

0682 51 Conference proceedings, Combustion

Prediction of boiler fouling by lignite ash
By Smith, D.W. / Szladow, A.J. Saskatchewan Power Corporation, Regina, Saskatchewan
Pap Pres at 32 Can Chem Eng Conf, Vancouver, British-Columbia, Oct. 3-6, 1982, Vol. 1, p. 458-467, 1982

0682 52 Conference proceedings, Combustion, Environment

Gypsum production from flue gas desulfurization systems using limestone reagent experience from two operating plants
By Byrne, R. Research Cottrell, Inc., Somerville, New-Jersey
Pap Pres at 32 Can Chem Eng Conf, Vancouver, British-Columbia, Oct. 3-6, 1982, Vol. 1, p. 566-572, 1982

0682 53 Conference proceedings, Combustion

Davy S H process for flue gas desulfurization
By Sabanski, M. Acres Davy McKee Limited, Rexdale, Ontario
Pap Pres at 32 Can Chem Eng Conf, Vancouver, British-Columbia, Oct. 3-6, 1982, Vol. 1, p. 573-582, 1982

0682 54 Conference proceedings, Combustion, Environment

Acid brick design and material selection for various elements in a flue gas desulfurization system
By Hancock, R. Canadian Stebbins Engineering & Manufacturing Co. Ltd., Burnaby, British-Columbia
Pap Pres at 32 Can Chem Eng Conf, Vancouver, British-Columbia, Oct. 3-6, 1982, Vol. 1, p. 596-606, 1982

0682 55 Conference proceedings, Combustion, Environment

Thermal DeNO//x: the practical approach to deep NO//x reduction
By Hurst, B.E. Exxon Research and Engineering Company, Florham-Park, New-Jersey
Pap Pres at 32 Can Chem Eng Conf, Vancouver, British-Columbia, Oct. 3-6, 1982, Vol. 1, p. 607-618, 1982

0682 56 Conference proceedings, Combustion

Spontaneous combustion of Canadian coals
By Feng, K.K. CANMET, Ottawa, Ontario
Pap Pres at Comb Inst Spring Tech Meeting, Banff, Alberta, May 9-12, 1982, 18p., 1982

0682 57 Article, Combustion

Coal fired reference plants: project benefits
By Tatum, C.B. / Bracey, D.J. Ebasco Services Inc., Washington, District-of-Columbia
J Energy Div Proc ASCE, Vol. 108, No. EY1, p. 49-57, March 1982

0682 58 Article, Combustion

Design of coal fired industrial boilers
By Ferrier, J.
Australian Refrigeration, Air Conditioning and Heating, p. 11-16, Aug. 1982

0682 59 Article, Combustion

R&D status report - coal combustion systems division
By Yeager, K.
EPRI J; Vol. 7, No. 8, p. 39-46, Oct. 1982

0682 60 Article, Combustion, Environment

Tentative identification of chemical elements likely to escape in the atmosphere at the Lingan coal fired power plant, Lingan, Nova Scotia
By Zodrow, E.L. College of Cape-Breton, Sydney, Nova-Scotia
CIM Bull, Vol. 75, No. 845, p.138-144, Sept. 1982

GEOLOGY

0743 0 Book, Geology

Geology
By Allan, J.A. Alberta Research Council, Edmonton, Alberta
Alberta Research Council, Edmonton, Alberta, Report No. 34, 1943
Report No.: ARC.34

0746 0 Book, Geology, Properties

Geology and coal occurrences of Wapiti Cutbank area Alberta
By Allan, J.A. / Carr, J.L. Alberta Research Council, Edmonton, Alberta
Alberta Research Council, Edmonton, Alberta, Report No. 48, 1946
Report No.: ARC.48

0760 0 Book, Geology

Evaluations of some Alberta coal deposits
By Pearson, G.R. Alberta Research Council, Edmonton, Alberta
Alberta Research Council, Edmonton, Alberta, Report No. 60-1, 1960
Report No.: ARC.60-1

0767 0 Book, Geology

Ardley coal zone in the Alberta Plains - Central Red Deer River area
By Campbell, J.D. Alberta Research Council, Edmonton, Alberta
Alberta Research Council, Edmonton, Alberta, Report No. 67-1, 1967
Report No.: ARC.67-1

0767 1 Book, Geology, Exploration

Coal survey boreholes, Vulcan Gleichen area, Alberta
By Campbell, J.D. Alberta Research Council, Edmonton, Alberta
Alberta Research Council, Edmonton, Alberta, Report No. 67-3, 1967
Report No.: ARC.67-3

0767 2 Book, Geology

Guide to coal deposits, Yukon and Mackenzie Territories, A compilation
By Campbell, J.D. Alberta Research Council, Edmonton, Alberta
Alberta Research Council, Edmonton, Alberta, Report No. 66-6, 1967
Report No.: ARC.66-6

0772 0 Book, Geology

Coal occurrences, Athabasca Smith area, Alberta
By Campbell, J.D. Alberta Research Council, Edmonton, Alberta
Alberta Research Council, Edmonton, Alberta, Report No. 72-10, 1972
Report No.: ARC.72-10

0772 1 Book, Geology

Coal occurrences and related geology, Fox Creek area, Alberta
By Campbell, J.D. Alberta Research Council, Edmonton, Alberta
Alberta Research Council, Edmonton, Alberta, Report No. 72-9, 1972
Report No.: ARC.72-9

0773 0 Article, Geology

How much in reserve? More fuel than meets the eye
By Whittemore, F.C. University of Virginia, Charlottesville, Virginia
Environment, Sept. 1973, Iss. 7, p. 16-20, 31-35, Sept. 1973

0774 0 Book, Geology

Coal resources, Hussar Hanna area, Alberta
By Campbell, J.D. Alberta Research Council, Edmonton, Alberta
Alberta Research Council, Edmonton, Alberta, Report No. 74-8, 1974
Report No.: ARC.74-8

0774 1 Book, Geology

Coal resources, Taber Manyberries area, Alberta
By Campbell, J.D. Alberta Research Council, Edmonton, Alberta
Alberta Research Council, Edmonton, Alberta, Report No. 74-3, 1974
Report No.: ARC.74-3

0774 2 Article, Geology, Mining

Coal inventory project
By Wright, J.D Nova-Scotia Department of Mines and Energy, Halifax, Nova-Scotia
Nova-Scotia Department of Mines, No. 75-1, 1974, p. 63-68, 1974

0774 3 German Article, Geology, Liquefaction

Entstehung und Veranderung bituminoser substanzen in Kohlen in Beziehung zur Entstehung und Umwandlung des Erdols
By Teichmueller, M. Geologisches Landesamt Nordrhein-Westfalen, Krefeld, Germany
Fortschr. Geol. Rheinld. u. Westf., Vol. 24, 65 p., Sept. 1974

0775 0 Book, Geology

Geology and coal reserves of the Ardley Coal Zone of Central Alberta
By Holter, M.E. / Yurko, J.R. / Chu, M. Alberta Energy and Natural Resources, Edmonton, Alberta
Alberta Energy and Natural Resources and Alberta Research Council, Edmonton, Alberta, Report No. 75-7, 1975
Report No.: ARC.75-7

0775 1 Book, Geology

Coal resources, Tofield Donalda area, Alberta
By Campbell, J.D. Alberta Research Council, Edmonton, Alberta
Alberta Research Council, Edmonton, Alberta, Report 75-8, 1975
Report No.: ARC.75-8

0775 2 Book, Geology, Exploration

Studies of seismic guided waves: The continuity of coal seams
By Guu, J.Y. Colorado School of Mines, Golden, Colorado
Thesis, Ph.D., Colorado School of Mines, Golden, Colorado, 1975
Report No.: UMI.78-2811

0775 3 Report, Geology

Cutting experiments using a rotating water jet in a borehole
By Savanick, G.A. / Ricketts, T.E. / Lohn, P.D. / Frank, J.N. , Twin-Cities Mining Research Center, Twin-Cities, Minnesota
United-States Bureau of Mines, Pittsburgh, Pennsylvania, 34p., 1975
Report No.: RI 8095

0776 0 Article, Geology, Exploration

Geological Appraisal of Submarine Coal Resources in Sydney Field of Nova Scotia
By Hacquebard, P.A.
Current research in the Maritimes, Sackville, New-Brunswick, Dec. 1976

0776 1 Article, Geology, Liquefaction

The Potential of Australian Brown Coals for Petroleum and Allied Products
By Liddy, J.C.
Aust. Min. Aug. 1976, Vol. 68, Iss. 8, p. 14-18, Aug. 1976

0776 2 Report, Geology, Exploration

Deep Cretaceous coal resources of the Alberta Plains
By Yurko, J.R. Alberta Research Council, Edmonton, Alberta
Alberta Research Council, Edmonton, Alberta, Report 75-4, 1976
Report No.: ARC.75-4

0776 3 Book, Geology, Exploration

High resolution seismic reflection techniques for mapping coal seams from the surface
By Lepper, C.M. / Ruskey, F. Denver Mining Research Center, Denver, Colorado
United-States Department of the Interior, Bureau of Mines Coal Mine Health and Safety Program, Technical Progress Report 101 , Oct. 1976
Report No.: BOM.TPR 101

0776 4 Article, Geology

Geophysical approaches to coal exploration, a review
By Rupert, G.B. University of Missouri-Rolla, Rolla, Missouri
Proceedings of the Third Annual UMR-MEC Conference on Energy, Vol. 3, Rolla, Missouri, Oct. 1976

0776 5 Article, Geology

Prospecting and developing coal reserves in the western interior coal region
By Robertson, C.E. Missouri Geological Survey, Rolla, Missouri
Proceedings of the Third Annual UMR-MEC Conference on Energy, Vol. 3, Rolla, Missouri, Oct. 1976

0776 6 Conference proceedings, Geology

Field description of coal
By Dutcher, R.R. American Society for Testing and Materials, Philadelphia, Pennsylvania
A symposium sponsored by ASTM Committee D-5 on Coal and Coke, American Society for Testing and Materials, Ottawa, Ontario, Sept. 1976
Report No.: ASTM.STP 661

0776 7 Conference proceedings, Geology

Further suggestions about coal description in the field
By Schopf, J.M. American Society for Testing and Materials, Philadelphia, Pennsylvania
A symposium sponsored by ASTM Committee D-5 on Coal and Coke, American Society for Testing and Materials, Ottawa, Ontario, p. 3-8, Sept. 1976
Report No.: ASTM.STP 661

0776 8 Conference proceedings, Geology

Megascopic description of coal with particular reference to seams in southern Illinois

By Cameron, A.R. American Society for Testing and Materials, Philadelphia, Pennsylvania
A symposium sponsored by ASTM Committee D-5 on Coal and Coke, American Society for Testing and Materials, Ottawa, Ontario,
p. 9-32, Sept. 1976
Report No.: ASTM.STP 661

0776 9 Conference proceedings, Geology

Compromise in coal seam description
By Davis, A. American Society for Testing and Materials, Philadelphia, Pennsylvania
A symposium sponsored by ASTM Committee D-5 on Coal and Coke, American Society for Testing and Materials, Ottawa, Ontario,
p. 33-40, Sept. 1976
Report No.: ASTM.STP 661

0776 10 Conference proceedings, Geology

Correlation of weathered lignite with pH and depth of cover
By Ginnard, K.J. / Corriveau, M.P. American Society for Testing and Materials, Philadelphia, Pennsylvania
A symposium sponsored by ASTM Committee D-5 on Coal and Coke, American Society for Testing and Materials, Ottawa, Ontario,
p. 41-49, Sept. 1976
Report No.: ASTM.STP 661

0776 11 Conference proceedings, Geology

Megascopic description of coal drill cores
By Goscinski, J.S. / Robinson, J.W. / Chun, D. American Society for Testing and Materials, Philadelphia, Pennsylvania
A symposium sponsored by ASTM Committee D-5 on Coal and Coke, American Society for Testing and Materials, Ottawa, Ontario,
p. 50-57, Sept. 1976
Report No.: ASTM.STP 661

0776 12 Conference proceedings, Geology

Field description and characterization of coals sampled by the Oklahoma geological survey, 1971 - 1976
By Friedman, S.A. American Society for Testing and Materials, Philadelphia, Pennsylvania
A symposium sponsored by ASTM Committee D-5 on Coal and Coke, American Society for Testing and Materials, Ottawa, Ontario;
p. 58-63, Sept. 1976
Report No.: ASTM.STP 661

0776 13 Book, Geology, Mining

Seismic effects of faulting in coal seams: Numerical modeling
By Su, F.C. Colorado School of Mines, Golden, Colorado
Thesis, Ph.D, Colorado School of Mines, Golden, Colorado, 1976

0776 14(*) Conference proceedings, Geology, Environment

Proceedings Gulf Coast Lignite Conference: Geology, utilization, and environmental aspects. Report of Investigations No. 90
By Kaiser, W.R. University of Texas, Austin, Texas
United-States Department of Energy, Washington, D.C., June 1976
Report No.: NTIS.CONF-7606131

0776 15 Report, Geology

Evaluation of the native hydraulic characteristics of the felix coal (Eocene, Wasatch formation) and associated strata, Hoe Creek site, Campbell County, Wyoming
By Stone, R. / Snoeberger, D.F. Lawrence Livermore Laboratory, University of California, Livermore, California
United-States Department of Energy, Washington, D.C., Jan. 1976
Report No.: NTIS.UCRL-51992

0776 16 Book, Geology

Pyrite in Coal: Its forms and distribution as related to the environments of coal deposition in three selected coals from Western Pennsylvania
By Reyes-Navarro, J. / Davis, A. Pennsylvania State University, University-Park, Pennsylvania
College of Earth and Mineral Sciences, Coal Research Section, Pennsylvania State University, University-Park, Pennsylvania, Sept. 1976
Report No.: PSU.SR-110

0776 17 Report, Geology, Mining

Some engineering geologic factors controlling coal mine subsidence in Utah and Colorado
By Dunrud, C.R.
Geological Survey Professional Paper, Washington, DC, ISS 969, p.39., 1976

0777 0 Book, Geology

Kansas Geological Survey Research and Development of a Five year Plan
University of Kansas, Lawrence, Kansas
Kansas Geological Survey, University of Kansas, 1977

0777 1 Article, Geology

Geological investigations of the coal bearing Kootenay Formation in the subsurface of the Upper Elk River Valley, British Columbia
By Graham, P.S. / Gunther, P.R. / Gibson, D.W.
Can. Geol. Surv. Pap., Iss. 77-1B, p. 203-210, 1977
Report No.: CGS.77-1B

0777 2 Report, Geology

Geological studies and evaluation of MacDougall Core Hole 1A, Western Prince Edward Island

By Howie, R.D.
Geological Survey of Canada, Paper 77-20, Energy, Mines and Resources, Canada, 1977
Report No.: EMR.77-20

0777 3 Book, Geology

Subsurface considerations in coal mining
By LeRoy, L.W.
Subsurface Geology, Petroleum Mining Construction, Colorado School of Mines, Fourth Edition, 1977, p. 583-589, 1977

0777 4 Book, Geology, Environment

Pit Slope Manual, Supplement 10 - 1, Reclamation by vegetation, Vol. 2, Mine Waste Inventory by satellite imagery

Minerals Research Program, Mining Research Laboratories, CANMET Report 77-58, 1977
Report No.: CANM.77-58

0777 5 Book, Geology

Pit Slope Manual, Supplement 2 - 5, Structural Geology, Case Histroy

Minerals Research Program, Mining Research Laboratories, CANMET Report 77-24, 1977
Report No.: CANM.77-24

0777 6 Book, Geology

Pit Slope Manual, Supplement 2 - 2, Domain analysis programs

Minerals Research Program, Mining Research Laboratories, CANMET, Report 77-19, 1977
Report No.: CANM.77-19

0777 7 German Report, Geology

Scanning electron microscopy (stereoscan) investigations for genetic interpretation of defects and joints in coal seams
By Gangel, L. / Murawski, H.
Neues Jahrb. Geol. Palaeontol., Monatsh, Iss. 12, p. 705-719, 1977

0777 8 Conference proceedings, Geology

Geology of alternate energy resources in the South Central United States
By Campbell, M.D.
Houston Geological Society, Houston, Texas, 1977

0777 9 Conference proceedings, Geology

Frontier areas and exploration techniques - Frontier lignite exploration in the South Central United States
By Wielchowsky, C.C. / Collins, G.F. / Gerahian, L.K. / Calhoun, E.J.
Geology of alternate energy resources in the South-Central United-States, p. 125-158, 1977

0777 10 Conference proceedings, Geology

Trend areas and exploration techniques - Occurrence and characteristics of Midway and Wilcox lignites in Mississippi and Alabama
By Self, D.M. / Williamson, D.R.
Geology of Alternate energy resources in the South-Central United-States, p. 161-176, 1977

0777 11 Conference proceedings, Geology, Gasification

Resource development/utilization - The potential of in situ lignite gasification in Texas
By Edgar, T.F. / Kaiser, W.R.
Geology of Alternate energy resources in the South-Central United-States, p. 179-192, 1977

0777 12 Conference proceedings, Geology, Environment

Environmental Considerations - Environmental Aspects of lignite mining in the South Central United States
By Hirsch, A.M.
Geology of Alternate energy resources in the South-Central United-States, p. 193-202, 1977

0777 13 Conference proceedings, Geology

Selected Lignite Bibliography

Geology of Alternate energy resources in the South-Central United-States, p. 203-212, 1977

0777 14 Book, Geology, Environment

Pit Slope Manual, Supplement 10 - 1, Reclamation by Vegetation, Vol. 1, Mine Waste Description and Case Histories

Minerals Research Program, Mining Research Laboratories, CANMET Report 77-31, 1977
Report No.: CANM.77-31

0777 15 Book, Geology, Environment

Deltaic and interdeltaic stratigraphy and sedimentology of the Fox Hills and associated formations in the central front
By Nwangwu, U. Colorado School of Mines, Golden, Colorado
Thesis, Ph.D., Colorado School of Mines, Golden, Colorado, 1977

0777 16 Book, Geology

Geology of the Beckley coal seam in the Eccles no. 5 mine near Eccles, West Virginia
By Mathew, D. University of South-Carolina, Columbia, South-Carolina
Thesis, Ph.D., University of South-Carolina, Columbia, South-Carolina, 1977
Report No.: UMI.78-7912

0777 17 Book, Geology

Geology of King Christian Island, District of Franklin
By Balkwill, H.R. / Roy, K.J.
Can., Geol. Surv. Mem., Iss. 386, 1977
Report No.: CGS.M 386

0777 18 Article, Geology

The composition of coal: Some implications for the future
By Renton, J.J. West-Virginia State Geological Survey, Morgantown, West-Virginia
Mt. State Geol., Dec. 1977, Iss. 1, p. 33-45, Dec. 1977

0777 19 Report, Geology, Properties

Chemical analyses of coal samples from the Black Mesa field, Arizona
Arizona Bureau of Mines, Tuscon, Arizona
Arizona Bureau of Mines Circular., Iss. 18, Arizona, 1977
Report No.: ABM.18

0777 20 Book, Geology

Analyses and measured sections of Pennsylvania bituminous coals, Part III
By Skema, V.W. / Edmunds, W.E. / Glover, A.D. / Inners, J.D. Pennsylvania Geological Survey, Harrisburg, Pennsylvania
Pennsylvania Bur. Topogr. Geol. Surv., Miner. Resour. Rep., Iss. 74, Harrisburg, Pennsylvania, 1977
Report No.: PDER.74

0777 21 Article, Geology

Development of investigation in the field of coal petrology
By Eremin, I.V.
Solid Fuel Chem., Vol. 11, No. 3, p. 52-56, 1977

0777 22 Report, Geology

Geology and mineral resources of Washington County, Ohio
By Collins, H.R. / Smith, B.E. / Webb, D.K. Ohio Geological Survey, Ohio

State of Ohio Department of Natural Resources, Division of Geological Survey, 1977
Report No.: OGS.66

0777 23 Report, Geology, Energy Policy

The application of near term fossil technologies to the energy supply/demand profiles of United States and regions
Systems Consultants, Inc., Washington, District-of-Columbia
United-States Energy Research and Development Administration, Washington, D.C., Jan. 1977
Report No.: NTIS.FE/2442-1

0778 0 Article, Geology

Plate tectonics and the formation of Britain
By Dykes, J.
Colliery Guardian, Vol. 226, No. 2, Feb. 1978, p. 83, 85, 88, Feb. 1978

0778 1 Article, Geology

Propagation of attenuated SH channel waves
By Buchanan, D.J.
Geophys. Prospect., Vol. 26, No. 1, March 1978, p. 16-28, March 1978

0778 2 Article, Geology

Influence of obliquely dipping discontinuities on the use of Rayleigh Channel Waves for the in seam seismic reflection method
By Freystatter, S. / Dresen, L.
Geophys. Prospect., Vol. 26, No. 1, March 1978, p. 1-15, March 1978

0778 3 Article, Geology

Remote sensing methods for monitoring surface coal mining in the Northern Great Plains
By Mamula, N.
J. Res. United-States Geol. Surv., April 1978, Vol. 6, Iss. 2, p. 149-160, April 1978

0778 4(*) Conference proceedings, Geology

Studies of a geothermal system in Northwestern Nevada - Part I
By Keller, G.V. / Grose, L.T.
Colorado School of Mines Quarterly, Volume 73, No. 3, July 1978

0778 5 Article, Geology

Geology and coal resources of the Tertiary sediments, Quesnel Prince George area, British Columbia (Canada)
By Graham, P.S.
Geol. Surv. Pap. (Geol. Surv. Can.), Vol. 78-1B, p. 59-64, 1978
Report No.: CGS.78-1B

0778 6 Article, Geology

Organic matter in the earth's crust
By Abelson, P.H.
Annual Review Earth Planet Sci., Vol. 6, p. 325-351, 1978

0778 7 Book, Geology

Geologic, hydrologic, and geochemical concepts and techniques in overburden characterizations for mined land reclamation
By Moran, S.R. / Groenewold, G.H. / Cherry, J.A.
N.D., Geol. Surv., Rep. Invest., Vol. 63, p. 1-152, 1978
Report No.: NDGS.RI 63

0778 8 Book, Geology

Natural resources inventory information index
By Shaw, J. Alberta Energy and Natural Resources, Edmonton, Alberta
Alberta Research Council, Edmonton, Alberta, Report No. 37, 1978
Report No.: ARC.37

0778 9 Article, Geology

Coal transfer station designed around geotechnical hazards
By Cecil, O.S. / Grays, R.E.
Ground Eng., April 1978, Iss. 3, p. 17-23, April 1978

0778 10 Book, Geology

Mesozoic deposits of the Hudson Bay lowlands and coal deposits of the Onakawana area, Ontario
By Price, L.L.
Can., Geol. Surv. Pap., Iss. 75-13, 1978
Report No.: CGS.77-13

0778 11 Article, Geology, Mining

Some relationships between stripmining and ground water
By Phelps, L.B. Pennsylvania State University, University-Park, Pennsylvania
Earth and Miner. Sci., June 1978, Iss. 9, p. 65-68, June 1978

0778 12 Report, Geology

Coal resource program
By Avcin, M.J. Iowa Geological Survey, Iowa-City, Iowa
Iowa Geol. Surv., Newsl., Jan. 1978, Vol. 1, p. 16-17, Jan. 1978

0778 13 Article, Geology, Mining

Electromagnetic technique of measuring coal layer thickness
By Ellerbruch, D.A. / Belsher, D.R.
IEEE Trans. Geosci. Electron., Vol. GE-16, No. 2, April 1978, p. 126-133, April 1978

0778 14 Report, Geology

Bibliography and index of publications related to coal in Colorado, 1972 - 1977
By Fender, H.B. / Jones, D.C. / Murray, D.K. Colorado Geological Survey, Denver, Colorado
United-States Department of the Interior, Bureau of Mines, Washington, D.C., 1978
Report No.: CGS.41

0778 15 Article, Geology, Energy Policy

British Columbia: Modest recovery leading to better future
By Higgs, F.G.
West. Miner. April 1978, Vol. 51, Iss. 4, p. 59-64, April 1978

0778 16 Article, Geology, Exploration

Alberta: Coal slows in short term

West. Miner., April 1978, Vol. 51, Iss. 4, p. 57, April 1978

0778 17 Article, Geology

Territories: Record values of mineral production

West. Miner., April 1978, Vol. 51, Iss. 4, p. 66, April 1978

0778 18 Report, Geology

Extraction of alumina from Canadian non bauxite materials
By Hamer, C.A. / Quon, D.H. / Winer, A.A. Canada Centre for Mineral and Energy Technology, Ottawa, Ontario
4th International Congress for the Study of Bauxites, Alumina and Aluminum, Athens, Greece, Vol. 3, p. 96-116, May 1978
Report No.: CANM.MRP/MSL 78-111

0778 19 Article, Geology

Coal drilling, Johns Valley, Garfield County, Utah
By Doelling, H.H. / Davis, F.D.
Utah Geology, Vol. 5, Iss. 2, p. 113-123, 1978

0778 20 Article, Geology

Depositional models in coal exploration and mine planning in Appalachian region
By Horne, J.C. / Ferm, J.C. / Caruccio, F.T. / Bagnaz, B.P.
American Association of Petroleum Geologists. Bulletin, Vol. 62, Iss. 12, p. 2379-2411, Dec. 1978

0778 21 Report, Geology

Interpretations of field hydraulic tests in explosion fractured coal: Hoe Creek, Site characterization to experiment No. 1
By Moody, M.M. Lawrence Livermore Laboratory, University of California, Livermore, California
United-States Department of Energy, Washington, D.C., March 1978
Report No.: NTIS.UCRL-52438

0778 22(*) Conference proceedings, Geology

Coal resources of the Americas. Selected papers
By Kottlowski, F.E. / Cross, A.T. / Meyerhoff, A.A. New-Mexico Bureau of Mines & Mineral Resources, Socorro, New-Mexico
Geological Society of America, Boulder, Colorado, 1978

0778 23 Book, Geology, Mining

Study of geological factors effecting roof conditions in the pochontas 3 coal seam, southern West Virginia, part 1 and 2
By Melton, R.A.
Thesis, University of South-Carolina, 1978
Report No.: UMI.7816517

0778 24 Article, Geology

Geological appraisal of the coal resources of Nova Scotia
By Hacquebard, P.A.
C.I.M. Bull, Vol. 72, No. 802, Feb. 1978, p. 76-87, Feb. 1978

0778 25 Article, Geology, Mining

Computations of synthetic seismograms for coal seams with the reflectivity method
By Fertig, J. / Mueller, G.
Geophys Prospect, Vol. 26, No. 4, Dec. 1978, p. 868-883, Dec. 1978

0778 26 Article, Geology

Geotechnical factors affecting tunneling machine performance in coal measures rock
By Poole, R.W. / Farmer, I.W.
Tunnels Tunnelling, Vol. 10, No. 10, Dec. 1978, p. 27-30, Dec. 1978

0778 27 Article, Geology

Coal reserves: Computer based evaluation and mine planning tool
By Gillette, J.M. Bonner and Moore Associates, Inc., Houston, Texas
Coal Miner, Vol. 3, Iss. 3, p. 23-28, Sept. 1978

0778 28 Article, Geology

Cape Breton coal industry: A review

Coal Miner, Vol. 3, Iss. 3, p. 7-20, Sept. 1978

0778 29 Book, Geology, Properties, Gasification

Underground coal conversion program: Volume III Resources
United-States Department of Energy, Washington, District-of-Columbia
United-States Department of Energy, Washington, D.C., Feb. 1978
Report No.: NTIS.DOE/ET-0008/3

0778 30 Article, Geology

Coal inventory survey: onshore
By Smith, E.W. / Gillis, K.S. / Gregory, D.J. Nova-Scotia Department of Mines and Energy, Halifax, Nova-Scotia
Nova-Scotia Department of Mines, Report, No. 78-1, 1978, p. 19-27, 1978

0778 31 Article, Geology

Character and magnitude of the variation in thickness of coal beds
By Trofimov, S.F. Donbass Scientific Research Laboratory, USSR
Sov. Geol. Geophys., Vol. 19, No. 8, 1978, p. 59-64, 1978

0778 32 Article, Geology, Mining

Stress state of an untouched bed layer and surrounding rocks
By Podil'chuk, Y.N. / Tkachenko, U.F.
Soviet Applied Mechanics, Vol. 14, No. 12, p. 1264-1270, Dec. 1978

0778 33 Book, Geology, Environment

Geology, groundwater hydrology, and hydrogeochemistry of a proposed surface mine and lignite gasification plant site near Dunn Center, North Dakota
By Moran, S.R. / Cherry, J.A. / Fritz, P. / Peterson, W.M. / Somerville, M.H. / Stancel, S.A. / Ulmer, J.H. Natural Gas Pipeline Company of America, Chicago, Illinois
North-Dakota Geol. Survey, Grand-Forks, North-Dakota, 263 p., 1978
Report No.: Investigation 61

0778 35 Article, Geology

Mineral commodities from coal
By Snyman, C.P. University of Pretoria, Pretoria, South-Africa
Trans. Geol. Soc. S. Africa, Vol. 81, No. 2, p. 241-248, 1978

0778 36 Article, Geology

Geology of carboniferous coal deposits in Nova Scotia
By Hacquebard, P.A. / Cameron, A.R. / Forgeron, S.V. Geological Association of Canada, Toronto, Ontario
Field Trips Guide Book, Toronto, Ontario, p. 43-64, 1978

0778 37 Article, Geology, Properties

Influence of the structural features of coals on their tendency to undergo reduction
By Grigor'eva, E.A. / Bakirova, E.V. / Lesnikova, E.B. / Larina, N.K. / Zharova, M.N.
Solid Fuel Chem, Vol. 12, No. 5, p. 38-39, 1978

0778 38 Article, Geology

Evaluation of the quality of coals as a raw material for hydrogenation
By Titova, T.A. / Yashina, T.N. / Stolbovaya, E.S. / Shulyakovskaya, L.V.
Solid Fuel Chem, Vol. 12, No. 5, P. 25-26, 1978

0778 39 Report, Geology

Mineral resources of Saskatchewan
By Denner, M.J. / Reeves, P.L. Saskatchewan Mineral Resources, Regina, Saskatchewan
Saskatchewan Miner. Resources (Geol. Surv.), Issue 78-11, 27p., 1978
Report No.: 79-11

0779 0 Book, Geology

Natural resources inventory information index
By Shaw, J. Alberta Energy and Natural Resources, Edmonton, Alberta
Alberta Research Council, Edmonton, Alberta, Report No. 37, 1979
Report No.: ARC.37

0779 1 Article, Geology, Properties

Erosion study of different materials affected by coal ash particles
By Tabakoff, W. / Kotwal, R. / Hamed, A.
Wear, Vol. 52, Iss. 1, p. 161-73, 1979

0779 2 Book, Geology

Project register 1 - 79. Prospecting, surveying and mine planning
Mining Technology Clearing House, Staffordshire, United-Kingdom
International Energy Agency, Economic Assessment Service, London, England, 1979
Report No.: IEA.PR 1-79

0779 3 Article, Geology

Depositional environments of Fort Union sediments (tertiary, Northwest Colorado) and their relation to coal
By Beaumont, E.D.
AAPG Bull, Vol. 63, No. 2, Feb. 1979, p. 194-217, Feb. 1979

0779 4 Book, Geology

Development and testing of a microwave system to measure coal layer thickness up to 25 cm. Final technical report, September 30, 1978
By Roe, K.C. / Ellerbruch, D.A. Electromagnetic Sensing Metrology, Boulder, Colorado
United-States Department of Energy, Pittsburgh, Pennsylvania, Jan. 1979
Report No.: NTIS.FE-8881-1

0779 5 Article, Geology

3D mine pillar design information from 2D FEM analysis
By Pariseau, W.G. / Sorensen, W.K.
Int. J. Numer. Anal. Methods Geomech., June 1979, Vol. 3, Iss. 2, p. 145-157, June 1979

0779 6 Article, Geology, Mining

Influence of geological and mining extraction field anomalies on rock pressure phenomena
By Vlasenko, B.V. / Sevost'yanov, V.V. / Fleishman, A.S. Academy of Sciences, Moscow, USSR
Soviet Min. Sci., Vol. 15, No. 1, p. 1-5, Feb. 1979

0779 7 Article, Geology

Groundhog coal area, British Columbia
By Richards, T.A. / Gilchrist, R.D. British-Columbia Ministry of Energy, Mines and Petroleum Resources, Victoria, British-Columbia
Canadian Geol. Surv., Paper., Iss. 79-1B, p. 411-414, 1979

0779 8 Article, Geology

The Tranquille beds of the Kamloops group: a tertiary (middle eocene) coal bearing sequence in the vicinity of Kamloops Lake, British Columbia
By Graham, P.S. / Long, D.G. Institute of Sedimentary and Petroleum Geology, Calgary, Alberta
Canadian Geol. Surv., Paper, Iss. 79-1A, p. 357-360, 1979

0779 9 Article, Geology, Mining

Forewarning of faults and outbursts of coal and gas at Westcliff Colliery
By Shepherd, J.R. / Creasy, J.W. CSIRO, Minerals Research Laboratories, North-Ryde, Australia
Colliery Guardian, Vol. 227, No. 10, p. 13-22, Oct. 1979

0779 10 Article, Geology, Mining

Location of faults by underground seismology
By Buchanna, D.J.
Colliery Guardian, Vol. 227, No. 8, p. 419-427, Aug. 1979

0779 11 Article, Geology, Mining

Influence of geological factors on coal mine design in the plains region
By Jeremic, M.L. University of Alberta, Edmonton, Alberta
West. Miner, Vol. 52, No. 4, p. 83-89, April 1979

0779 12 Article, Geology, Mining

Imagery analysis: Predicting hazards
By Rinkenberger, R.K. Denver Technical Support Center, Denver, Colorado
Coal Min. Process, Vol. 16, No. 2, p. 48-50, Feb. 1979

0779 13 Book, Geology, Properties, Mining

Acoustic emission in coal: A laboratory study
By McCabe, W.M.
Drexel University, Philadelphia, Pennsylvania, 1979
Report No.: umi 7920808

0779 14 Article, Geology

Seismoacoustic activity in a coal seam in relevance to destressing
By Baule, H. / Rao, M.V. National Geophysical Research Institute, Hyderabad, India
Rock Mech. (Vienna), Vol. 11, Iss. 3, p. 177-187, Feb. 1979

0779 15 Article, Geology

Depositional setting and coal petrology of Tulameen coalfield, South Central British Columbia
By Williams, V.E. / Ross, C.A. University of British-Columbia, Vancouver, British-Columbia
AAPG Bull., Vol. 63, Pt. 1, No. 11, p. 2058-2069, Nov. 1979

0779 16 Article, Geology

Study of acoustic emissions from stressed rocks and rockmasses
By Rao, M.V. / Gowd, T.N. National Geophysical Research Institute, Hyderabad, India
J Mines Met Fuels, Vol. 27, No.3, p. 80-85, March 1979

0779 17 Article, Geology

Organic material in the Tranquille beds of the (tertiary) Kamloops volcanic group near Afton Mine, Kamloops, British Columbia (Canada)
By Creaney, S. Institute of Sedimentary and Petroleum Geology, Calgary, Alberta
Geol. Surv. Can. Paper 79-1A, p. 381-382, 1979

0779 18 Report, Geology

Opencase coal reserves at Springhill
By Ward, B. Wimpey Laboratories Limited, Hayes, Middlesex, United-Kingdom
Nova-Scotia Department of Mines, Halifax, Nova-Scotia, 1979
Report No.: NSDM.79-2

0779 19 Article, Geology

Geological problems associated with the Barnsley seam in the Doncaster area
By Myerscough, P.S. / Pearson, J.N. Doncaster Metropolitan Institution of Higher Education, Doncaster, United-Kingdom
Colliery Guardian, Vol. 227, No. 12, p. 668-675, Dec. 1979

0779 20 Article, Geology, Mining

Influence of physico mechanical properties and geological discontinuities on rock blasting
By Singh, D.P. / Appa-Rao, Y.V. Banaras Hindu University, India

Colliery Guardian, Vol. 227, No. 11, p. 631-633, 635, Nov. 1979

0779 21 Article, Geology, Properties

Approximate diffraction theory for transparent half planes with application to seismic wave diffraction at coal seams
By Fertig, J. / Mueller, G. University of Karlsruhe, Karlsruhe, Germany
J. Geophys., Vol. 46, Iss. 4, p. 349-367, 1979

0779 22 Article, Geology

Chemical and petrographic parameters of low rank coals of the Donets, Kuznets and Pechora Basins and the coalfields of the Trans Baikal.
By Ulanov, N.N. / Druchina, I.D. / Reznikova, L.N. / Arkhangel'skii, O.P.
Solid Fuel Chem, Vol. 13, No. 1, p. 1-6, Jan. 1979

0779 23 Article, Geology

Estimating strength of sandstone using petrographic thin section data
By Fahy, M.P. / Guccione, M.J. Public Service of New-Mexico, Albuquerque, New Mexico
Bull Assoc Eng Geol, Vol 16., No. 4, p. 467-485, 1979

0779 24 Article, Geology, Properties

On the investigation of aliphatics in coals
By Raj, S.
Coal Tech (Houston), Vol. 2, No. 4, p. 53-64, April 1979

0779 25 Article, Geology

Matir infrared spectra of coals of the rank series
By Bubnovskaya, L.M. / Likhtenshtein, V.I. / Popov, V.K. / Rus'yanova, N.D.
Solid Fuel Chem, Vol. 13, No. 5, p. 18-21, 1979

0779 26 Article, Geology

Investigation of the microfissuring of coals of different degrees of disturbance
By Temeeva, L.A. Moscow Mining Institute, Moscow, USSR
Solid Fuel Chem, Vol. 13, No. 3, p. 68-70, 1979

0779 27 Article, Geology, Mining

Longwall mining of coal seams in Poland
By Szczurowski, A. / Lojas, J.

Coll Guard Vol. 227, No. 1, p. 44-49, Jan. 1979

0779 28 Article, Geology, Properties

Paramagnetism of the petrographic components of hard coal
By Cherepanova, E.S. / Lyubchenko, L.S. / Lukovnikov, A.F.
Solid Fuel Chem, Vol. 13, No. 5, p. 13-17, 1979

0779 29 , Geology, Properties

Polymeric structure of coals
By Smirnov, R.N.
Solid Fuel Chem, Vol. 13, No. 5, p. 33-38, 1979

0779 30 Article, Geology

Some characteristics of the change in the petrographic compostion of coals on enrichment and their practical utilization
By Glushchenko, I.M. / Muzychuk, V.D.
Solid Fuel Chem, Vol. 13, No. 4, p. 60-63, 1979

0779 31 Article, Geology, Energy Policy

The development of China's coal industry
By Wang, C.Y.
Coll Guard, Vol. 227, No. 7, p. 8-11, July 1979

0779 32 Article, Geology, Energy Policy

Mining developments in Alberta province, Canada
By Szwilski, A.B. University of Alberta, Edmonton, Alberta
Coll Guard, Vol. 227, No. 7, p. 17-19, July 1979

0779 33 Article, Geology

Stratigraphic palynology of the Mooki Valley, New South Wales
By Martin, H.A.
R. Soc. New-South-Wales J. Proceedings, Vol. 112, Part 1-2, p. 71-78, 1979

0779 34 Article, Geology

The basic industrial genetic classification and special classifications of coals
By Golubarzh, V.
Solid Fuel Chem, Vol. 13, No. 2, p. 68-71, 1979

0779 35 Article, Geology

A general equation for the metamorphism of coals
By Stanov, V.V.
Solid Fuel Chem, Vol. 13, No. 6, p. 45-54, 1979

0779 36 Book, Geology

Evaluation of the coal reserves in the Whitwell Shale in the Southern Cumberland plateau in Tennessee - final report
By Wilson, R.L. / Warren, G.F. / Milici, R.C. University of Tennessee, Chattanooga, Tennessee
United-States Department of Energy, 76p., May 1979
Report No.: DOE/ET/09009-T1

0779 37 Article, Geology

Diagenesis of coal (Coalification)
By Teichmueller, M. / Teichmueller, R.
Diagenesis in Sediments and Sedimentary Rocks, Vol. 25A, p. 207-246, 1979

0779 38 Article, Geology

Geologic controls on element concentrations in the Upper Freeport coal bed
By Cecil, C.B. / Stanton, R.W. / Allshouse, S.D. / Finkelman, R.B. / Greenland, L.P. United-States Geological Survey, Reston, Virginia
Prepr Pap-Am Chem Soc, Div Fuel Chem, Vol. 24, No. 1, p. 230-235, 1979

0779 39 Article, Geology

The response of coal to geologic stimulus
By Taylor, G.H.
Royal Soc N S W, J & Proc, Vol. 112, p. 113-138, 1979

0779 40 Article, Geology

Organic matter as indicator of the degree of metamorphism of the carboniferous rocks in the South Wales coalfields
By Gill, W.D. / Khalaf, F.I. / Massoud, M.S. University of London, London, United-Kingdom
J Pet Geol, Vol. 1, No. 4, p. 39-62, April 1979

0779 41 Article, Geology

Structural characteristics of vitrinites
By Raj, S. Ebasco Services Inc., New-York, New-York

Prepr Pap, Am Chem Soc, Div Fuel Chem, Vol. 24, No. 3, p. 251-259, 1979

0779 42 Article, Geology, Gasification, Liquefaction

The effect of the size grade and macroingredient composition of coal on its thermochemical conversions
By Titov, I.P. / Rod'kin, S.P. / Kazachkov, A.I.
Coke Chem (USSR), No. 12, p. 6-10, 1979

0779 43 Article, Geology, Properties

The physical structure of brown coal
By Camier, R.J. / Siemon, S.R. / Battaerd, H.A. / Stanmore, B.R. University of Melbourne, Parkville, Australia
Prepr Pap, Am Chem Soc, Div Fuel Chem, Vol. 24, No. 1, p. 203-209, 1979

0779 44 Conference proceedings, Geology

Geology, coal resources, and chemical analyses of coal from the Fruitland Formation, Kimbeto EMRIA study site, San Juan County, New Mexico
By Schneider, G.B. / Hildebrand, R.T. / Affolter, R.H. United-States Department of the Interior, Washington, District-of-Columbia
Geol Surv, Open-File Report 79-1090, 41p., 1979

0779 45 Conference proceedings, Geology

Designing coal pillars from drill core data
By Karmis, M. / Haycocks, C. / Breeds, C. / Topuz, E. Virginia Polytechnic Institute and State University, Blacksburg, Virginia
Symposium Underground Mining, Coal Conference & Expo 5, Louisville, Kentucky, Oct. 23/25, 1979, p. 20-26, 1979

0779 46 Conference proceedings, Geology, Mining

Site selection for coal mine shafts using geological investigation
By Mazurak, R.E. / Ealy, D.L. Pickands Mather & Co., Cleveland, Ohio
Symposium Underground Mining, Coal Conference & Expo 5, Louisville, Kentucky, Oct. 23/25, 1979, p. 27-37, 1979

0779 47 Article, Geology

Some differences between coals of the same rank from different coalfields
By Drozdik, I.D. / Ulanovskii, M.L.
Coke Chem (USSR), No. 3, p. 3-8, 1979

0779 48 Article, Geology, Properties

Chemomechanical behavior of coal
By Macmillan, N.H. / Dias, O.C. Pennsylvania State University, University-Park, Pennsylvania
AIME, Vol. 266, p. 1886-1892, 1979

0779 49 Article, Geology

Lithofacies of the lower cretaceous Mannville group, west central Saskatchewan
By Lorsong, J.A. Saskatchewan Geological Survey, Regina, Saskatchewan
Summary of Investigations - Saskatchewan Geological Survey, No. 79-10, p. 169-173, 1980

0779 50 Report, Geology

The clarification of clay suspensions
By Ellis, J. / Holland, A. / Wheway, R. Water Research Foundation of Australia, Australia
Rep Water Res Found Aust, Vol. 55, 59p., 1979

0780 0 Article, Geology, Mining

The next decade: major mineral resource expansion in British Columbia
By Brown, A.S. British-Columbia Ministry of Energy, Mines and Petroleum Resources, Victoria, British-Columbia
Western Miner, Vol. 53, Iss. 2, Feb. 1980, p. 53-54, Feb. 1980

0780 1 Article, Geology, Properties

Preliminary analysis of a gravity profile across the Bonnet Plume Basin, Yukon Territory, Canada: an aid to coal basin evaluation
By Sobczak, L.W. / Long, D.G. Canada Department of Energy, Mines and Resources, Ottawa, Ontario
Can. J. Earth Sci., Vol. 17, Iss. 1, p. 43-51, Jan. 1980

0780 2 Article, Geology, Mining, Properties, Geology

Quality of Western Canadian coking coal
By Pearson, D.E. British-Columbia Ministry of Energy, Mines and Petroleum Resources, Victoria, British-Columbia
CIM Bull, Vol. 73, No. 813, p. 70-84, Jan. 1980

0780 3 Article, Geology

Hydrated sulfates from Sydney coalfield, Cape Breton Island, Nova Scotia, Canada: The copiapite group
By Zodrow, E.L. College of Cape-Breton, Sydney, Nova-Scotia
Am. Mineral., Vol. 65, No. 9-10, p. 961-966, 1980

0780 4 Article, Geology

On the geochemistry of indium in coal forming process
By Eskenazy, G.M. University of Sofia, Sofia, Bulgaria
Hydrocarbon Process., Vol. 44, No. 7, p. 1023-1028, July 1980

0780 5 Article, Geology, Properties

Kaolinite, smectite and k rectorite in bentonites: relation to coal rank at Tulameen, British Columbia
By Pevear, D.R. / Williams, V.E. / Mustoe, G.E. Western Washington University, Bellingham, Washington
The Clay Minerals Society, Vol. 28, No. 4, p. 241-254, 1980

0780 6 Article, Geology

Sedimentology, geochemistry and structure of the Al Tar area
By Banat, K.M. / Atiya, M.S. / Naoum, A.A. University of Baghdad, Baghdad, Iraq
Iraqi J. Sci, Vol. 21, No. 2, p. 383-403, 1980

0780 7 Article, Geology

A geothermal study of the Jharia Gondwana basin (India), heat flow results from several holes and heat production of basement rocks
By Rao, G.V. / Rao, R.U. National Geophysical Research Institute, Hyderabad, India
Earth and Planetary Science Letters, Vol. 48, No. 2, p. 397-405, July 1980

0780 8 Article, Geology

Rare anthropogenic and natural particles suspended in deep ocean waters
By Jedwab, J. Universite Libre de Bruxelles, Brussels, Belgium
Earth and Planetary Science Letters, Vol. 49, No 2, p. 551-564, June 1980

0780 10 Article, Geology, Mining

Modelling geological uncertainty for mine planning
By Mitchell, M. National Coal Board, London, United-Kingdom
World Coal, Vol. 6, No. 7, p. 55-57, July 1980

0780 11 Article, Geology, Mining

Tavistock No. 2 section, a question of topography is answered

S African Min Eng J, Vol. 97, No. 4160, p. 40-42, 44, March 1980

0780 12 Article, Geology

A Rb/Sr age for the cretaceous tertiary boundary (Z coal), Hell Creek, Montana
By Baadsgaard, H. / Lerbekmo, J.F. University of Alberta, Edmonton, Alberta
Can. J. Earth Sci., Vol. 17, No. 5, p. 671-673, May 1980

0780 13 Article, Geology, Properties

Composition of soluble organic matter in coals: relation to rank and liptinite fluorescence
By Radke, M. / Schaefer, R.G. / Leytaeuser, D. / Teichmueller, M. Institute for Petroleum and Organic Geochemistry, Julich, West-Germany
Geochim. Cosmochimica Acta., Iss. 11, p. 787-1800, 1980

0780 14 Conference proceedings, Geology

Major factors influencing the distribution of cretaceous coal in the western interior United States
By Kauffman, E.G. United-States National Museum, Washington, District-of-Columbia
Proceedings of the Fourth Symposium on the Geology of Rocky Mountain Coal, Denver, Colorado, April 28-29, 1980, p. 1-3, April 1980
Report No.: Resource Series 10

0780 15 Conference proceedings, Geology

Deltaic coals of the ferron sandstone member of the Mancos Shale: predictive model for cretaceous coals of the western interior
By Ryer, T.A. United-States Geological Survey, Denver, Colorado
Proceedings of the Fourth Symposium on the Geology of Rocky Mountain Coal, Denver, Colorado, April 28-29, p. 4-5, April 1980
Report No.: Resource Series 10

0780 16 Conference proceedings, Geology

Stratigraphic and structural aspects of coal in upper Cretaceous Menefee and Fruitland formations at Durango, Colorado
By Newman, K.R. Colorado School of Mines, Golden, Colorado
Proceedings of the Fourth Symposium on the Geology of Rocky Mountain Coal, Denver, Colorado, April 28-29, p. 6, April 1980
Report No.: Resource Series 10

0780 17 Conference proceedings, Geology

Wave dominated deltas: an important economic depositional model for upper cretaceous of southwestern Wyoming
By Horne, J.C. / McKenna, L.L. / Levey, R.A. / Petranoff, T.V. Colorado School of Mines, Golden, Colorado
Proceedings of the Fourth Symposium on the Geology of Rocky Mountain Coal, Denver, Colorado, April 28-29, 1980, p.7-12, April 1980
Report No.: Resource Series 10

0780 18 Conference proceedings, Geology

Relation of intraformational faults to fluvial sedimentation and coal bed discontinuity, Raton Formation, Colorado and New

Mexico
By Roehler, H.W. / Danilchik, W. United-States Geological Survey, Denver, Colorado
Proceedings of the Fourth Symposium on the Geology of Rocky Mountain Coal, Denver, Colorado, April 28-29, 1980, p. 13, April 1980
Report No.: Resource Series 10

0780 19 Conference proceedings, Geology

Comparison of depositional models of tertiary and upper Cretaceous coal bearing rocks in some western interior basins of the United States
By Flores, R.M. United-States Geological Survey, Denver, Colorado
Proceedings of the Fourth Symposium on the Geology of Rocky Mountain Coal, Denver, Colorado, April 28-29, 1980, p. 17-20, April 1980
Report No.: Resource Series 10

0780 20 Conference proceedings, Geology

Formation of clinker by natural burning of coal beds in the Powder River Basin, Wyoming
By Coates, D.A. United-States Geological Survey, Denver, Colorado
Proceedings of the Fourth Symposium on the Geology of Rocky Mountain Coal, Denver, Colorado, April 28-29, 1980, p. 37-40, April 1980
Report No.: Resource Series 10

0780 21 Conference proceedings, Geology, Mining

Geochemistry of clinker, naturally burning coal, and mine fires
By Herring, J.R. United-States Geological Survey, Denver, Colorado
Proceedings of the Fourth Symposium on the Geology of Rocky Mountain Coal, Denver, Colorado, April 28-29, 1980, p. 41-44, April 1980
Report No.: Resource Series 10

0780 22 Conference proceedings, Geology

Application of automated image analysis to coal petrography
By Chao, E.C. / Minkin, J.A. / Thompson, C.L. United-States Geological Survey, Reston, Virginia
Proceedings of the Fourth Symposium on the Geology of Rocky Mountain Coal, Denver, Colorado, April 28-29, 1980, p. 50-54, April 1980
Report No.: Resource Series 10

0780 23 Conference proceedings, Geology

Stratigraphy and coal resources of Dakota sandstone in Sage Plain, Southwest Colorado and Southeast Utah
By Wilson, W.L. / Livingston, A.L. Rocky Mountain Energy Company, Denver, Colorado
Proceedings of the Fourth Symposium on the Geology of Rocky Mountain Coal, Denver, Colorado, April 28-29, 1980, p. 69-70, April 1980
Report No.: Resource Series 10

0780 24 Conference proceedings, Geology

Coking coal deposits in Colorado
By Goolsby, S.M. / Reade, N.S. / Ladwig, L.R. Aquarian Consultants, Ltd., Denver, Colorado
Proceedings of the Fourth Symposium on the Geology of Rocky Mountain Coal, Denver, Colorado, April 28-29, 1980, p. 73-75, April 1980
Report No.: Resource Series 10

0780 25 Conference proceedings, Geology

Coal stratigraphy of the Tongue River Member, Northern Cheyenne Reservation, Montana
By Heffern, E.L. United-States Bureau of Land Management, Miles-City, Montana
Proceedings of the Fourth Symposium on the Geology of Rocky Mountain Coal, Denver, Colorado, April 28-29, 1980, p. 76-80, April 1980
Report No.: Resource Series 10

0780 26 Conference proceedings, Geology, Mining

The Anderson coal - a regional study
By Matson, R.E. / Cole, G.A. / Fine, D.E. Montana Bureau of Mines and Geology, Butte, Montana
Proceedings of the Fourth Symposium on the Geology of Rocky Mountain Coal, Denver, Colorado, April 28-29, 1980, p. 81-85, April 1980
Report No.: Resource Series 10

0780 27 Conference proceedings, Geology

Stratigraphic significance of radiometric ages for Eocene coals in western Washington
By Triplehorn, D.M. / Turner, D.L. / Frizzell, V.A. University of Alaska, Fairbanks, Alaska
Proceedings of the Fourth Symposium on the Geology of Rocky Mountain Coal, Denver, Colorado, April 28-29, 1980, p. 87, April 1980
Report No.: Resource Series 10

0780 28 Conference proceedings, Geology

Igneous intrusion of steeply dipping Eocene coals near Ashford, Pierce County, Washington
By Beeson, D.C. GRC Exploration Company, Arvada, Colorado
Proceedings of the Fourth Symposium on the Geology of Rocky Mountain Coal, Denver, Colorado, April 28-29, 1980, p. 88-94, April 1980
Report No.: Resource Series 10

0780 29 Conference proceedings, Geology, Mining

Magnetic location of concealed igneous dikes cutting coal measures near Walsenburg, Colorado
By Hasbrouck, W.P. / Danilchik, W. / Roehler, H.W. United-States Geological Survey, Denver, Colorado
Proceedings of the Fourth Symposium on the Geology of Rocky Mountain Coal, Denver, Colorado, April 28-29, 1980, p. 95-98,

April 1980
Report No.: Resource Series 10

0780 30 Conference proceedings, Geology

Seismic seam waves in the coal basin of Colorado
By Reeves, J.J. / Major, M.W. Colorado School of Mines, Golden, Colorado
Proceedings of the Fourth Symposium on the Geology of Rocky Mountain Coal, Denver, Colorado, April 28-29, 1980, p. 99, April 1980
Report No.: Resource Series 10

0780 31 Conference proceedings, Geology

Hole to Hole seismic seam wave observations
By Regueiro, J. / Major, M.W. Colorado School of Mines, Golden, Colorado
Proceedings of the Fourth Symposium on the Geology of Rocky Mountain Coal, Denver, Colorado, April 28-29, 1980, p. 100-103, April 1980
Report No.: Resource Series 10

0780 32 Conference proceedings, Geology

Geology of the Decker coal area
By Wollenzien, T. Peter Kiewit Sons' Company, Sheridan, Wyoming
Proceedings of the Fourth Symposium on the Geology of Rocky Mountain Coal, Denver, Colorado, April 28-29, 1980, p. 104-107, April 1980
Report No.: Resource Series 10

0780 33 Conference proceedings, Geology

Tertiary coal deposits of the Hanna and Carbon Basins, Wyoming
By Glass, G.B. Geological Survey of Wyoming, Laramie, Wyoming
Proceedings of the Fourth Symposium on the Geology of Rocky Mountain Coal, Denver, Colorado, April 28-29, 1980, p. 86, April 1980
Report No.: Resource Series 10

0780 34 Article, Geology

High Nitrogen 15 in nitrogen of northwest German basin is due to migration as ammonium ion
By Getz, F.A. Neeg, Inc., Greenwich, Connecticut
Erdoel Kohle, Erdgas, Petrochem., Vol. 33, No. 12, p. 575, 1980

0780 35 Book, Geology

Quality and occurence of coal in southern Saskatchewan, Canada, Volume I, Introduction to data acquisition and to associated computer processable files

By Dyck, J.H. / McKenzie, C.T. / Tibbetts, T.E. / Whitaker, S.H. Saskatchewan Research Council, Saskatoon, Saskatchewan
Saskatchewan Research Council, Saskatoon, Saskatchewan, 1980
Report No.: ERP/ERL 80-84(TR)

0780 36 Article, Geology, Properties

Photoacoustic infrared spectra (IR PAS) of aged and fresh cleaved coal surfaces
By Rockley, M.G. / Devlin, J.P. Oklahoma State University, Stillwater, Oklahoma
Appl Spectros, Vol. 34, No. 4, p. 407-408, Aug. 1980

0780 37 Article, Geology

Relation of the carbon/oxygen ratio in coal to igneous intrusions in the Somerset Coal Field, Colorado
By Dyni, J.R. / Gaskill, D.L.
Geological Survey Bulletin, Iss. 1477-A, 20p., 1977

0780 38 Book, Geology

Geology of the middle Pennsylvanian Stockton Lewiston coal seam and associated clastic rocks in West Virginia - dissertation
By Dionne, J.V. George Washington University, Washington, District-of-Columbia
George Washington University, Washington, D.C., 267p., 1980

0780 39 Article, Geology, Mining

Rupturing criteria of coal bearing strata, W. Canada
By Jeremic, M.L. / Ronca, L.B. University of Alberta, Edmonton, Alberta
Mod Geol, Vol. 7, Iss. 3, p. 191-199, 1980

0780 40 Article, Geology

Use of electrical resistivity methods for study of some faults in the Jharia coalfield, India
By Verma, R.K. / Bhuin, N.C. / Rao, C.V. Indian School of Mines, Dhanbad, India
Geoexploration, Vol. 18, No. 3, p. 201-220, Aug. 1980

0780 41 Article, Geology, Environment

Forms of sulfur in East Texas lignitic coal
By Arora, H.S. / Pugh, C.E. / Hossner, L.R. / Dixon, J.B. Texas A&M University, College-Station, Texas
J Environ Qual, Vol. 9, No. 3, p. 383-386, 1980

0780 42 Article, Geology, Properties

Thermostimulated electrical conductivity as a method of differentiating coals according to rank

By Sergatyuk, A.F. / Lizun, S.A. / Bartoshinskaya, E.S.
Solid Fuel Chem, Vol. 14, No. 2, p. 12-16, 1980

0780 43 Article, Geology, Properties

Some geochemical characteristics as indices of the degree of reduction of coals of the Kol'chuginskaya series of the Kuzbass
By Artser, A.S. / Dobronravov, V.F.
Solid Fuel Chem, Vol. 14, No. 3, p. 1-4, 1980

0780 44 Article, Geology

Mineral formation in coal bed outcrops
By Iskhakov, K.A. / Chernysh, A.V.
Solid Fuel Chem, Vol. 14, No. 2, p. 69-71, 1980

0780 45 Article, Geology, Properties

Elementary composition of hard coals as an index of the degree of their reduction
By Dobronravov, V.F.
Solid Fuel Chem, Vol. 14, No. 4, p. 1-7, 1980

0780 46 Article, Geology

Developments in coal mine geology
By Ward, C.R. New-South-Wales Institute of Technology, New-South-Wales, Australia
Aust Coal Miner, Vol. 2, No. 11, p. 37-39, 1980

0780 47 Article, Geology, Mining

Developments in coal mine geology
By Ward, C.R. New-South-Wales Institute of Technology, New-South-Wales, Australia
Australian Coal Miner, Vol. 2, No. 12, p. 23-24, 1980

0780 48 Article, Geology

Coal measures of deep (beyond the Shelf) ocean zones
By Pronin, A.A. USSR Academy of Sciences, Sverdlovsk, USSR
Doklady of the Academy of Sciences of the USSR, Earth Science, p. 129-130, April 1980

0781 0 Conference proceedings, Geology

Coal origins and characteristics: an overview
By Given, P.H. Pennsylvania State University, University-Park, Pennsylvania

Coal Characteristics and Coal Utilization Conference, Pennsylvania State University, 18p., June 1981

0781 1 Conference proceedings, Geology, Properties

Coals as colloidal systems
By Walker, P.L. Pennsylvania State University, University-Park, Pennsylvania
Coal Characteristics and Coal Utilization Conference, Pennsylvania State University, 9p., June 1981

0781 2 Book, Geology

Geophysicial examination of coal deposits
By Jackson, L.J. IEA Coal Research, London, United-Kingdom
IEA Coal Research Report, 115 p., April 1981
Report No.: ICTIS/TR 13

0781 3 Conference proceedings, Geology, Properties

Organic geochemistry and chemistry of coal macerals
By Given, P.H. Pennsylvania State University, University-Park, Pennsylvania
Coal Characteristics and Coal Utilization Conference, Pennsylvania State University, 98p., June 1981

0781 4 Conference proceedings, Geology, Gasification, Environment

Pyrometamorphism caused by the Hanna II, phases 2 and 3 underground coal gasification experiment
By Burns, L.K. / Craig, G.N. / Ethridge, F.G. / Youngberg, A.D. Colorado State University, Fort-Collins, Colorado
Proceedings of the Seventh Underground Coal Conversion Symposium, Fallen-Leaf-Lake, California, Sept. 8/11, 1981, 10p, 1981
Report No.: CONF-810923

0781 5 Conference proceedings, Geology, Gasification

Hyrogeologic evaluation of the Hanna coal gasification site
By Youngberg, A.D. / Santoro, R.D. Laramie Energy Technology Center, Laramie, Wyoming
Proceedings of the Seventh Underground Coal Conversion Symposium, Fallen-Leaf-Lake, California, Sept. 8/11, 1981, 15p., 1981
Report No.: CONF-810923

0781 6 Conference proceedings, Geology, Gasification

Petrographic analysis of unaltered and thermally metamorphosed coal from the Hanna, Wyoming gasification area
By Youngerg, A.D. Laramie Energy Technology Center, Laramie, Wyoming
Proceedings of the Seventh Underground Coal Conversion Symposium, Fallen-Leaf-Lake, California, Sept. 8/11, 1981, 13p., 1981
Report No.: CONF-810923

0781 7 Conference proceedings, Geology, Gasification

Pricetown post test core analysis
By Zielinski, R.E. / Agarwal, A.K. / Seabaugh, P.W. Monsanto Research Corporation, Miamisburg, Ohio
Proceedings of the Seventh Underground Coal Conversion Symposium, Fallen-Leaf-Lake, California, Sept. 8/11, 1981, 17p., 1981
Report No.: CONF-810923

0781 8 Article, Geology, Mining

Experimental uses of short pulse radar in coal seams
By Coon, J.B. / Fowler, J.C. / Schafers, C.J. Conoco Coal Development Company, Ponca-City, Oklahoma
Geophysics, Vol. 46, No. 8, p. 1163-1168, Aug. 1981

0781 9 Article, Geology, Mining

Fault location by channel wave seismology in United Kingdom coal seams
By Buchanan, D.J. / Davis, R. / Jackson, P.J. / Taylor, P.M. National Coal Board, Burton-on-Trent, United-Kingdom
Geophysics, Vol. 46, Iss. 7, p. 994-1002, July 1981

0781 10 Article, Geology, Environment, Properties

Distributions of trace elements in Western Canadian coal ashes
By Kronberg, B.I. / Brown, J.R. / Fyfe, W.S. / Peirce, M. / Winder, C.G. University of Western Ontario, London, Ontario
Fuel, Vol. 60, No. 1, p. 59-63, Jan. 1981

0781 11 Article, Geology, Properties

Inorganic constituents in American lignites
By Morgan, M.E. / Jenkins, R.G. / Walker, P.L. Pennsylvania State University, University-Park, Pennsylvania
Fuel, Vol. 60, No. 3, p. 189-193, 1981

0781 12 Article, Geology, Properties

Posssible significance of the relative concentrations of terpanes, terpenes, steranes, and cadalene in six United States coals
By Gallegos, E.J. Chevron Research Company, Richmond, California
J Chromatogr Sci, Vol. 19, No. 3, p. 156-160, 1981

0781 13 Article, Geology

Example of the enrichment of carbon 13 in coals in the process of coalification
By Monin, J.C. / Boudou, J.P. / Durand, B. / Oudin, J.L. Compagnie Francais des Petroles, Talence, France
Fuel, Vol. 60, No. 10, p. 957-960, Oct. 1981

0781 14 Article, Geology, Properties

Coal as a dissipative structure
By Dobal, V. / Cerny, V. Czechoslovak Academy of Sciences, Prague, Czechoslovakia
Fuel, Vol. 60, No. 6, p. 536-537, 1981

0781 15 Article, Geology, Beneficiation

Breakage parameters of some materials in smooth roll crushers
By Austin, L.G. / Van-Orden, D. / McWilliams, B. / Perez, J.W. Pennsylvania State University, University-Park, Pennsylvania
Powder Tech, Vol. 28, No. 2, p. 245-251, 1981

0781 16 Article, Geology, Beneficiation

Breakage properties of some materials in a laboratory ball mill
By Austin, L.G. / Bagga, P. / Celik, M. Pennsylvania State University, University-Park, Pennsylvania
Powder Tech, Vol. 28, No. 2, p. 235-243, 1981

0781 17 Article, Geology

Typical analysis and data on ash quality of Alberta coals
By Stansfield, E. / Lang, W.A. Alberta Research Council, Edmonton, Alberta
Alberta Research Council, Report No. 35, 17p., Oct. 1981

0781 18 Article, Geology

Vitrinite reflectance anisotropy as a tectonic fabric element
By Hower, J.C. / Davis, A. University of Kentucky, Lexington, Kentucky
Geology (Boulder), Vol. 9, Iss. 4, p. 165-168, April 1981

0781 19 Report, Geology

Abundance of trace and minor elements in organic and mineral fractions of coal
By Kuhn, J.K. / Fiene, F.L. / Cahill, R.A. / Gluskoter, H.J. / Shimp, N.F. Illinois State Geological Survey, Urbana, Illinois
United-States Environmental Protection Agency, 75p., 1981
Report No.: EPA-600/7-80-003

0781 20 Article, Geology, Properties, Mining, Beneficiation

Methods for predicting size degradation of Western Canadian coals
By Mikhail, M.W. / Patching, T.H. CANMET, Edmonton, Alberta
Fuel, Vol. 60, No. 11, p. 1073-1078, 1981

0781 21 Article, Geology, Properties

Determination of kaolinite in coal by infrared spectroscopy - a comment
By Finkelman, R.B. / Fiene, F.L. / Painters, P.C. United-States Geological Survey, Reston, Virginia
Fuel, Vol. 60, No. 7, p. 643-644, 1981

0781 22 Article, Geology, Mining

Effect of sub coal strata on coal pillar stability
By Jeremic, M.L. University of Alberta, Edmonton, Alberta
Coal Miner, Vol. 6, No. 1, 5p., 1981

0781 23 Report, Geology, Exploration

Deep coal resources of the interior plains, estimated from petroleum borehole data
By Williams, G.D. / Murphy, M.C. University of Alberta, Edmonton, Alberta
Geological Survey of Canada, 15p., 1981
Report No.: Paper 81-13

0781 24 Article, Geology, Properties

Influence of petrographic composition on the free swelling index of coal and on its use as a weathering parameter
By Marchioni, D.L. Geological Survey of Canada, Calgary, Alberta
Coal Miner, Vol. 6, No. 2, p. 22,24, May 1981

0781 25 Article, Geology

Seam and location differentiation of coal specimens using trace element concentrations
By Nichols, C.L. / D'Auria, J.M. Simon Fraser University, Burnaby, British-Columbia
Analyst (London), Vol.106, No. 1265, p.874-882, 1981

0781 26 Article, Geology

The effect of maturation on the isotopic composition of fossil fuels
By Rigby, D. / Batts, B.D. / Smith, J.W. CSIRO, Division of Process Technology, North-Ryde, Australia
Org Geochem, Vol. 3, No. 1-2, p. 29-36, 1981

0781 27 Article, Geology

Coal deposit modelling using computers
By Taylor, R.S. Control Data Canada Ltd., Vancouver, British-Columbia
Coal Miner, Vol. 6, No. 2, p. 32-36, May 1981

0781 28 Article, Geology

Nuclear magnetic resonance studies of ancient buried wood - I. Observations on the origin of coal to the brown coal stage
By Hatcher, P.G. / Breger, I.A. / Earl, W.L. National Bureau of Standards, Washington, District-of-Columbia
Org Geochem, Vol. 3, No. 1-2, p. 49-55, 1981

0781 29 Article, Geology, Properties, Combustion

The Influence of coal type on devolatilization and combustion in fluidized beds
By Pillai, K.K. Coal Utilisation Research Laboratory, Leatherhead, United-Kingdom
J Inst Energy, Vol. 54, No. 420, p. 142-150, 1981

0781 30 Article, Geology, Exploration

A preliminary assessment of coal slurry pH and coal flotation as parameters of weathering in western canadian coals
By Marchioni, D.L. Institute of Sedimentary and Petroleum Geology, Calgary, Alberta
Cim Bulletin (1974), Vol. 74, No. 830, p. 52-54, 1981

0781 31 Article, Geology, Mining

Geotechnical centrifuges for model studies and physical property testing of rock and rock structures
By Clark, G.B. Colorado School of Mines, Golden, Colorado
Colorado School of Mines Quarterly, Vol. 76, No. 4, 63p., 1981

0781 32 Article, Geology

Structural features of coals in zones of outburst hazardous geological disturbances
By Artemov, A.V. / Belikov, V.V.
Solid Fuel Chem, Vol. 15, No. 3, p. 110-113, 1981

0781 33 Conference proceedings, Geology, Properties, Mining

A new technique for determining the methane content of coal
By Smith, D.M. / Williams, F.L. University of New-Mexico, Albuquerque, New-Mexico
Proc Intersoc Energy Convers Eng Conf, 16th, Vol. 2, Atlanta, Georgia, Aug. 9/14, 1981, 1981

0781 34 Article, Geology

Precambrian coal or anthraxolite: A source for graphite in high grade schists and gneisses
By Mancuso, J.J. / Seavoy, R.E. Bowling Green University, Bowling-Green, Ohio
Econ Geo, Vol. 76, Iss. 4, p. 951-954, July 1981

0781 35 Article, Geology

The construction of a scale of the coalification transformation of fossilized organic matter on the basis of its chemical and substance composition
By Uspenskii, V.A. / Radchenko, O.A. / Smirnova, M.B.
Solid Suel Chem, Vol. 15, No. 2, p. 1-5, 1981

0781 36 Article, Geology

The inhomogeneity of the vitrinites in coals of Kuzbass
By Dobronravov, V.F. / Romanovskaya, M.V.
Solid Fuel Chem, Vol. 15, No. 4, p. 1-7, 1981

0781 37 Article, Geology

A comparative study of the compositions of modern and fossil peats
By Lukoshko, E.S. / Khoruzhik, A.V. / Pigulevskaya, L.V.
Solid Fuel Chem, Vol. 15, No. 4, p. 30-34, 1981

0781 38 Conference proceedings, Geology

Coal structure
By Larsen, J.W. University of Tennessee, Knoxville, Tennessee
AIP Conf Proc, Vol. 70, p. 1-27, 1981

0781 39 Conference proceedings, Geology, Properties

Relationship of coal maceral composition to utilization
By Thompson, R.R. Bethlehem Steel Corporation, Bethlehem, Pennsylvania
AIP Conf Proc, Vol. 70, p. 49-65, 1981

0781 40 Article, Geology, Environment

Depositional setting and groundwater quality in coal bearing sediments and spoils in western North Dakota
By Groenewold, G.H. / Rehm, B.W. / Cherry, J.A. North-Dakota Geological Survey, Grand-Forks, North-Dakota
SEPM Special Publication, No. 31, p. 157-167, Aug. 1981

0781 41 Conference proceedings, Geology, Mining

Petrography of the harbour seam in the Donkin reserve area of the Sydney coalfield, Nova Scotia
By Hacquebard, P.A. / Avery, M.P. Bedford Institute of Oceanography, Dartmouth, Nova-Scotia
Proc of the 64th CIC Coal Symp, Halifax, Nova-Scotia, May 31-June 3, 1981, Vol. 1, p. 79-86,, 1981

0782 0 Article, Geology, Properties

Oxidation states in surface and buried coal from the Fording River Deposit
By Teo, K.C. / Finora, S. / Leja, J. University of British-Columbia, Vancouver, British-Columbia
Fuel, Vol. 61, No. 1, p. 71-76, 1982

0782 1 Article, Geology, Mining

Internal structure of coal seams and mechanical stability
By Jeremic, M.L. Laurentian University, Sudbury, Ontario
CIM Bull, Vol. 75, No. 841, p. 71-75, 1982

0782 2 Article, Geology

The effect of shearing on the quality of some coals in the southeastern Canadian Cordillera
By Bustin, R.M. University of British-Columbia, Vancouver, British-Columbia
CIM Bull, Vol. 75, No. 841, p. 76-83, 1982

0782 3 Article, Geology

Tectonic history from vitrinite reflectance
By Middleton, M.F. CSIRO, Division of Fossil Fuels, North-Ryde, Australia
Geophys J R Astron Soc, Vol. 68, No. 1, p. 121-132, 1982

0782 4 Article, Geology, Mining, Exploration

Some geological criteria for investment in coal mining
By Allen, M.J.
Min Congr J, No. 4, p. 583-588, April 1982

0782 5 Article, Geology

A possible mechanism for natural graphite formation
By Bonijoly, M. / Oberlin, M. / Oberlin, A. Laboratoire Marcel Mathieu, Cedex, France
Int J of Coal Geol, Vol. 1, p. 283-312, 1982

0782 6 Article, Geology

Properties, origin and nomenclature of rodlets of the inertinite maceral group in coals of the central Appalachian basin, U.S.A.
By Lyons, P.C. / Finkelman, R.B. / Thompson, C.L. / Brown, F.W. / Hatcher, P.G. United-States geological Survey, Reston, Virginia
Int J of Coal Geol, Vol. 1, p. 313-346, 1982

0782 7 Article, Geology, Exploration

Organic petrology and source rock potential of sediments in the Eromanga basin, South Australia
By Smyth, M. / Cameron, M. CSIRO, Division of Fossil Fuels, North-Ryde, Australia
Int J of Coal Geol, Vol. 1, p. 263-281, 1982

0782 8 Article, Geology, Properties

Automated petrographic characterization of coal lithotypes
By Crelling, J.C. Southern Illinois University, Carbondale, Illinois
Int J Coal Geol, Vol. 1, p. 347-359, 1982

0782 9 Article, Geology, Mining

Computer modelling of the geology of the Coal Mountain Mine
By Lytle, M. Esso Resources Canada Ltd., Calgary, Alberta
CIM,. Vol. 75, No. 844, p. 78-81, Aug. 1982

0782 10 Article, Geology

Coal
By Damberger, H.N. / Glass, G.B. Illinois State Geological Survey, Champaign, Illinois
Geotimes, Vol. 27, No. 1, p. 23-25, Feb. 1982

TRANSPORTATION

0832 O Book, Transportation

Re: Coal rates Alberta to Ontario

Board of Transport Commissioners for Canada, Sept. 1932

0848 O Article, Transportation

The fuel reserves of Alberta
By Lang, W.A. Alberta Research Council, Edmonton, Alberta
Transactions of the Canadian Institute of Mining and Metallurgy, Winnipeg, Manitoba, Vol. LII, p. 15-22, Alberta Research Council Contribution Series 14, Oct. 1948
Report No.: ARC.14

0853 O Book, Transportation

Application of Manitoba and Saskatchewan Coal Company Limited and others for an order reducing rates on lignite coal

Board of Transport Commissioners for Canada, April 1953

0858 O Book, Transportation

Equalization of commodity rates - coal

Board of Transport Commissioners for Canada, June 1958

0863 O Article, Transportation

On possibilities for pipelining coal in Canada
By Berkowitz, N. / Jensen, E.J. Alberta Research Council, Edmonton, Alberta
Transactions of the Annual General Meeting, Edmonton, Alberta, Vol. LXVI, p. 258-262, Alberta Research Council, Edmonton, Alberta, Contribution No. L213, April 1963
Report No.: ARC.L213

0864 O Article, Transportation

Paper 4. Pipeline transmission of coal and other materials in association with oil
By Berkowitz, N. Alberta Research Council, Edmonton, Alberta
Proc. SRBII/Inst. Fuel Conf. on Current Developments in Fuel Utilization, Brussels, Paper No. 4, Alberta Research Council, Edmonton, Alberta, Contribution No. 258, 1964
Report No.: ARC.258

0865 0 Article, Transportation

The pipeline movement of solids as capsules and paste slugs
By Jensen, E.J. / Berkowitz, N. Alberta Research Council, Edmonton, Alberta
Alberta Research Council, Edmonton, Alberta, Contribution No. 274, 1965
Report No.: ARC.274

0875 0 Report, Transportation

Design of slurry pipeline for reduced flow rates (Turn down parameters)
By Coulter, D.M. System Sciences, Inc., Bethesda, Maryland
Applied Science and Research Applications, National Science Foundation, Washington, D.C., Nov. 1975
Report No.: NTIS.PB-287 077

0875 1 Book, Transportation, Properties

Study of the electrical conductivity of a plasma in combustion products
By Gaponov, I.M. / Poberezhskiy, L.P. Academy of Sciences, Moscow, USSR
United-States Energy Research and Development Administration, Washington, D.C., 1975
Report No.: NTIS.ERDA-tr-186

0876 0 Book, Transportation

Western coal transportation: Unit trains or slurry pipelines?
By Sargent, A.
University Research Program, United-States Department of Transportation, Aug. 1976
Report No.: DOT.13

0876 1 Article, Transportation

Water quality consideration in the slurry pipelining of coal
By Moore, J.W.
Proc. - Front. Power Technol. Conf., Vol. 9, No. 8, 1976

0876 2 Article, Transportation

Over one billion tons of coal in 1985: Can the railroad industry handle it?
By Peppers, L.C. Creighton University, Omaha, Nebraska
Proceedings of the Third Annual UMR-MEC Conference on Energy, Vol. 3, Rolla, Missouri, Oct. 1976

0876 3 Patent, Transportation

Production of solid fuel water slurries
By Wiese, H.C. / Denchfield, J.R. / Ahlborn, J.C.
Assignees: Texaco Inc., May 1978, p. 3, pp. 44-51, C10L1/32, Patent: United-States, 4088453, June 1976, Appl. 699407, June

1976
Report No.: P.4088453

0876 4 Book, Transportation

Wind entrainment of coal particles and its control
By Brown, R.A.S. / Speichert, A. Alberta Research Council, Edmonton, Alberta
Alberta Research Council, Edmonton, Alberta, 1976

0876 5 Book, Transportation, Combustion, Mining

Clean energy from Alaskan coals. Final report, January 1974 - December 1975
Stanford Research Institute, Menlo-Park, California
United-States Energy Research and Development Administration, Washington, D.C., Jan. 1976
Report No.: NTIS.FE-1516-2

0876 6 Book, Transportation

Rail transportation requirements for coal movement in 1980
By Desai, S.A. / Anderson, J. Input Output Computer Services, Inc., Cambridge, Massachusetts
United-States Department of Transportation, Washington, D.C., 192p., Dec. 1976
Report No.: NTIS.PB-265-466

0876 7 Article, Transportation

Experiences in transportation of dried low rank western coals
By Paulson, L.E. / Cooley, S.A. / Wegert, C. / Ellman, R.C. Grand-Forks Energy Technology Center, Grand-Forks, North-Dakota
AIME, Vol. 260, p. 300-305, Dec. 1976

0876 8 Article, Transportation

Drying of western coal
By Hand, J.W.
Min Congr J, p. 30-32, May 1976

0877 0 Article, Transportation

We can handle it
By Shaffer, F.E.
Coal Min Process, Vol. 14, No. 7, July 1977, p. 48-50, 71-72, July 1977

0877 1 Article, Transportation, Mining

Update on slurry transportation from face to cleaning plant
By Dahl, H.D. / Petry, E.F.
Min. Congr. J., Vol. 63, No. 12, Dec. 1977, p. 14-16, Dec. 1977

0877 2 Article, Transportation

Who will move the coal?

Min. Eng. (New York), Vol. 29, No. 10, Oct. 1977, p. 49-50, Oct. 1977

0877 3 Book, Transportation

Water Quality aspects of coal transportation by slurry pipeline
By Sanguanruang, S.S.
Doctoral, Diss. Abstr. Int., Vol. 38, No. 5, p. 2296B, 1977
Report No.: UMI.77-23,299

0877 4 Book, Transportation

Hydrotransport of solids underground
By Gregory, F.W. Mining Technology Clearing House, Staffordshire, United-Kingdom
IEA Coal Working Party, Technical Investigation No. 1.1, Dec. 1977
Report No.: IEA.TI 1.1

0877 5 Article, Transportation, Mining

Amherst boosts production 50 percent with continuous haulage system
By Mason, R.H.
Coal Min. Process, Vol. 14, No. 8, Aug. 1977, p. 52-57, Aug. 1977

0877 6 Article, Transportation, Mining

Shirebrook Pneumatic coal transport scheme
By Peters, T.W.
Colliery Guardian, Vol. 225, No. 11, Nov. 1977, p. 853-856, Nov. 1977

0877 7 Article, Transportation

Conserving energy and protection environment by using freight pipelines - A technology assessment
By Liu, H.F. / Gibson, D.L. University of Missouri-Columbia, Columbia, Missouri
Proceedings of the Fourth Annual UMR-DNR Conference on Energy, University of Missouri-Rolla, Missouri Department of Natural Resources, Oct. 1977

0877 8 Article, Transportation

Pipelining coking coals
By Rigby, G.R. / Callcott, T.G.
BHP Tech. Bull., Vol. 21, No. 2, Nov. 1977, p. 2-7, Nov. 1977

0877 9 Conference proceedings, Transportation

Babcock & Wilcox's experience with two phase flow mixtures of coal and gas
By Bolumen, A.G. Babcock & Wilcox Company, Barberton, Ohio
United-States Energy Research and Development Administration, Proceedings: Conference on Coal Feeding Systems, Pasadena, California, p. 388-410, June 1977

0877 10 Article, Transportation

A comparison of operational economics of transportation vehicles operated on gasoline & coal generated hydrogen
By Billings, R.E.
Synthetic Fuels Processing, Comparative Economics, Marcel Dekker, Inc., 1977

0877 11 Book, Transportation

Coal transportation study, Final report
By Hood, R. / White, T.G. General Motors Corporation, Warren, Michigan
United-States Department of Energy, Washington, D.C., Sept. 1977
Report No.: NTIS.COO/2970-1

0877 12 Patent, Transportation, Combustion

Agglomerating coal slurry particles
By Verschuur, E.
Assignees: Shell Oil Company, Nov. 1978, C10L5/14, Patent: United-States, 4126426, Dec. 1977, Appl. 860014, Dec. 1977
Report No.: P.4126426

0877 13 Book, Transportation

Parameters and regimes for the hydraulic transportation of coal by pipelines
By Trainis, V.V. INSDOC, New-Delhi, India
United-States Department of the Interior, Washington, D.C., 1977
Report No.: NTIS.TT-72-51038

0877 14 Patent, Transportation

A process for the preparation and pipeline transportation of a slurry of coal particles in water
By Verschuur, E.

Assignees: Shell Internationale Research Maatschappij B.V., 1553634, Oct. 1979, Patent: London, Appl. 77/1685, Jan. 1977
Report No.: P.1553634

0877 15 Patent, Transportation

Processing a slurry of coal particles in water
By Verschuur, E. Shell Research Limited, London, United-Kingdom
Assignees: Shell Research Limited, London, England, 7800054, Sept. 1978, Patent: South-African, Appl. 77/577, Jan. 1977
Report No.: P.7800054

0877 16 Conference proceedings, Transportation

Transport of coal by pipeline
By de-Ruiter, H.
Future Coal Supply for the Energy Balance, Third IIASA Conference on Energy Resources, Nov. 28-Dec. 2, 1977, 13p., 1977

0877 17 Conference proceedings, Transportation

Economics of mineral and brown coal pipeline hydrotransport
By Balbakov, S.N. / Belych, B.N. / Morozov, L.L. / Olophynsky, J.P. / Rukin, E.J. / Stepin, B.S.
Future Coal Supply for the Energy Balance, Third IIASA Conference on Energy Resources, Nov. 28-Dec. 2, 1977, 15p., 1977

0877 18 Conference proceedings, Transportation

Methacoal enhances the transportation and use of coal resources
By Jimeson, R.M.
Future Coal Supply for the Energy Balance, Third IIASA Conference on Energy Resources, Nov. 28-Dec. 2, 1977, p. 331-342, 1977

0878 0 Article, Transportation

Haulage technology increases low seam output by 50P.
By Smith, J.W. / Blohm, R.L.
Coal Min. Process, Vol. 15, No. 2, Feb. 1978, p. 52-55, 1978

0878 1 Article, Transportation

Railroads vs Pipelines -.there's room for both
By Guccione, E.
Coal Min. Process, Vol. 15, No. 2, Feb. 1978, p. 48-51, 88, Feb. 1978

0878 2 Book, Transportation

Underground transport in coal mines
By Curl, S.J.
Report Number ICTIS/TR 01, London, IEA Coal Research, April 1978
Report No.: IEA.ICTIS/TR 01

0878 3 Book, Transportation

Appendix: Cook Inlet coal economics of mining and marine slurry transport
By Hennagin, B.D. University of Washington, Seattle, Washington
Bureau of Mines, United-States Department of the Interior, Washington, D.C., Jan. 1978
Report No.: NTIS.PB-278 756

0878 4 Book, Transportation

Feasibility study of mining Alaska coal and transportation by slurry to the West Coast
By Anderson, D., University of Washington, Seattle, Washington
Bureau of Mines, United-States Department of the Interior, Washington, D.C., Jan. 1978
Report No.: NTIS.PB-278 755

0878 5 Article, Transportation, Beneficiation

Terminal facilities for Western coal slurry pipelines
By Wasp, E.J. / Aude, T.C. / Raymer, F.B.
Min. Eng. (New-York), Vol. 30, No. 2, Feb. 1978, p. 198-202, Feb. 1978

0878 6 Article, Transportation

Pneumatic transport of coal
By Sproson, J.C. / Gray, W.A. / Haynes, J.
Hyraul. Pneum. Mech. Power, Vol. 24, No. 279, March 1978, p. 103-116, March 1978

0878 7 Article, Transportation, Properties

From the receiving hopper to the furnace - 2. Coal handling at the plant site
By Bevan, R.R.
Chem. Eng. (New-York), Vol. 85, No. 2, Jan. 1978, p. 120-128, Jan. 1978

0878 8 Article, Transportation

Hydraulic hoisting and long distance pumping of coal
By McElvain, R.E.
Can. Min. J., Vol. 99, No. 3, March 1978, p. 17, March 1978

0878 9 Article, Transportation

Outlook shines for coal slurry lines
By Jackson, D.
Coal Age, Vol. 83, No. 6, June 1978, p. 88-93, June 1978

0878 10 Book, Transportation

Technical Working Group on Hydrotransport, Notes of the second meeting held on Sept. 25 - 29, 1978
Mining Technology Clearing House, Staffordshire, United-Kingdom
IEA Coal Working Party, Sept. 1978

0878 11 Article, Transportation

Coal - The fastest growing bulk trade?

Cargo Syst. Int., Vol. 5, No. 4, April 1978, p. 81, 83, April 1978

0878 12 Article, Transportation

Tenn Tom plans 87 percent coal traffic, 1986 completion
By O'Brien, K.M.
Coal Age, Vol. 83, No.7, July 1978, p. 126-128, July 1978

0878 13 Article, Transportation

Great Lakes transport of western coal: Economic and technical analysis
By Elste, V.H. / Scher, R.M.
Mar. Technol., Vol. 15, No. 2, April 1978, p. 195-217, April 1978

0878 14 Article, Transportation

Coal transportation research and information needs
By Eck, R.W. / Hui, C.Y.
ASCE Transp. Eng. J., Vol. 104, No. 5, Sept. 1978, p. 757-767, Sept. 1978

0878 15 Book, Transportation

Materials handling by slurry pipelines, Citations from the NTIS Data base
By Smith, M.F.
National Technical Information Service, Springfield, Virginia, July 1978
Report No.: NTIS.PS-78/0720

0878 16 Book, Transportation

Materials handling by slurry pipelines, Citations from the Engineering Index Data Base
By Smith, M.F.
National Technical Information Service, Springfield, Virginia, July 1978
Report No.: NTIS.PS-78/0721

0878 17 Article, Transportation

Cost analysis of transportation systems for coal refuse disposal
By Roberts, J.M.
Min. Congr. J., Vol. 64, No. 7, July 1978, p. 53-58, July 1978

0878 18 Conference proceedings, Transportation

Technical Working Group on Hydrotransport
Mining Technology Clearing House, Staffordshire, United-Kingdom
Papers presented to the second meeting held at Witten, West-Germany, Sept. 1978

0878 19 Conference proceedings, Transportation

Progress report on the hydraulic transport investigations being carried out by BHRA
By Baker, P.J. Pumps and Pipelines Group, Middlesex, United-Kingdom
Papers presented at the second meeting held at Witten, West-Germany, p. 1-4, Sept. 1978

0878 20 Conference proceedings, Transportation

Waste Disposal System - NCB North East Area
By Selfe, J. Bullen and Partners, Croydon, United-Kingdom
Papers presented at the second meeting held at Witten, West-Germany, p. 5-9, Sept. 1978

0878 21 Conference proceedings, Transportation

Hydrotransport in the United States - Progress Report
By Miscoe, A.J. United-States Department of Energy, Washington, District-of-Columbia
Papers presented at the second meeting held at Witten, West-Germany, p. 10-15, Sept. 1978

0878 22 Conference proceedings, Transportation

Results of various basic studies in the field of hydraulic transport of coal and waste
By Geller, F.J. WBK, Bochum
Papers presented at the second meeting held at Witten, West-Germany, p. 16-24, Sept. 1978

0878 23 Conference proceedings, Transportation

Practical problems in hydrotransport systems
By Mitze / Schweinsberg WBK, Bochum
Papers presented at the second meeting held at Witten, West-Germany, p. 25-44, Sept. 1978

0878 24 Conference proceedings, Transportation, Mining

StBV activities related to hydromining and hydrotransport
By Maurer, H. StBV, Essen, West-Germany
Papers presented at the second meeting held at Witten, West-Germany, p. 45-53, Sept. 1978

0878 25 Conference proceedings, Transportation

Coal cutting with very high pressure water jets
By Pfannenstiel, P.K. Dezernent Abbautechnik, StBV, Essen
Papers presented at the second meeting held at Witten, West-Germany, p. 54-64, Sept. 1978

0878 26 Conference proceedings, Transportation

Full face mechanized rock tunnel drivage with hydraulic debris disposal
By Setzepfandt, W. StBV, Essen, West-Germany
Papers presented at the second meeting held at Witten, West-Germany, p. 65-82, Sept. 1978

0878 27 Conference proceedings, Transportation

The hydrotransport test facility of Bergbau Forschung
By Maurer, H. StBV, Essen, West-Germany
Papers presented at the second meeting held at Witten, West-Germany, p. 84-87, Sept. 1978

0878 28 Conference proceedings, Transportation

Technical measurement problems of the hydrotransport test facility of Bergbau Forschung GmbH
By Mez StBV, Essen, West-Germany
Papers presented at the second meeting held at Witten, West-Germany, p. 88-99, Sept. 1978

0878 29 Conference proceedings, Transportation

Dewatering of hydraulically transported coal
By Leininger, D. StBV, Essen, West-Germany
Papers presented at the second meeting held at Witten, West-Germany, p. 100-106, Sept. 1978

0878 30 Conference proceedings, Transportation

Mechanized stone drivage/full face drivage using high pressure water jets
By Henneke, J. / Baumann, L. StBV, Essen, West-Germany
Papers presented at the second meeting held at Witten, West-Germany, p. 107-111, Sept. 1978

0878 31 Conference proceedings, Transportation

Mining problems encountered in the application of hydro techniques at Hansa
By Hilgenstock
Papers presented at the second meeting held at Witten, West-Germany, p. 112-115, Sept. 1978

0878 32 Conference proceedings, Transportation

Planning and installation of high pressure water supply and hydrotransport systems at hydromine Hansa
By Beyer, E.
Papers presented at the second meeting held at Witten, West-Germany, p. 116-145, Sept. 1978

0878 33 Article, Transportation

United Kingdom coals ports face export challenge
By Peckham, R.
Cargo Syst. Int., Vol. 5, No. 9, Sept. 1978, p. 86-91, Sept. 1978

0878 34 Article, Transportation

Shell Coal International: New Maasvlakte terminal
By Peckham, R.
Cargo Syst. Int., Vol. 5, No. 7, July 1978, p. 44-51, July 1978

0878 35 Article, Transportation

How will all the coal be shipped?
By Miskell, J.T.
Energy (Stamford Conn.), Winter 1978, Vol. 3, No. 1, p. 6-8, 1978

0878 36 Article, Transportation

Coal bunker discharge
By Toynbee, P.A.
Aust. Min., Vol. 70, No. 7, July 1978, p. 14, July 1978

0878 37 Article, Transportation

Planning solves permit problems for 11 million tpy terminal
By Gawinski, M.J.
Coal Min. Process, Vol. 15, No. 10, Oct. 1978, p. 80-84, 111,114, Oct. 1978

0878 38 Article, Transportation

Licking River terminal: A showcase in coal handling
By Yewell, J.
Coal Min. Process, Vol. 15, No. 10, Oct. 1978, p. 74-79, 111, Oct. 1978

0878 39 Report, Transportation

Coal slurry pipelines: Water laws, customs, and availability
By Campbell, T.C. Process Evaluation Office, Morgantown, West-Virginia
United-States Department of Energy, Washington, D.C., June 1978
Report No.: NTIS.FE/EES-78/6

0878 40 Article, Transportation

Coal by pipe. A real alternative
By Brady, A.
Consulting Engineer, Northwood Publications Ltd., London, England, Oct. 1978

0878 41 Article, Transportation

Bulk equipment - energy coal to offset steel slump

Cargo Syst Int, Vol. 5, No. 11, Nov. 1978, p. 55, 57, 59, Nov. 1978

0878 42 Article, Transportation

Hong Kong terminals - new bulk and container developments

Cargo Syst Int, Vol. 5, No. 11, Nov. 1978, p. 63, Nov. 1978

0878 43 Article, Transportation

P&M uses preweigh loadout unit
By Jackson, D.
Coal Age, Vol. 83, No. 12, Dec. 1978, p. 57-59, Dec. 1978

0878 44 Book, Transportation

Development of coatings for protection of coal during transport and storage. Final report for December 1977 - September 1978
By Kromrey, R.V. / Scheffee, R.S. / De-Pasquale, J.A. / Valentine, R.S. Atlantic Research Corporation, Alexandria, Virginia
United States Department of Energy, Washington, D.C., Nov. 1978
Report No.: NTIS.COO-4632-2

0878 45 Article, Transportation

Thunder Bay terminals link western coal with eastern market
By Pabst, M.
Can Min J, Vol. 99, No. 12, Dec. 1978, p. 39, 42, Dec. 1978

0878 46 Book, Transportation, Mining

Longwall conveyor system study, Vol. 1, final technical report
By Douglas, W.J. / Herhal, A.J. / Pimentel, R.A. Ketron, Inc., Wayne, Pennsylvania
United-States Department of Energy, Washington, D.C., June 1978
Report No.: NTIS.FE-8915/T2-1

0878 47 Book, Transportation

The long run economics of the ocean transport of coal
By Lee, H.M. IEA Coal Research, London, United-Kingdom
International Energy Agency, Economic Assessment Service, London, England, Dec. 1978

0878 48 Article, Transportation

Experimental study of moisture transfer in bulk coal subject to freezing
By Yefimov, S.S. / Nikitina, L.M. Academy of Sciences, Moscow, USSR
Heat Transfer Sov Res, Vol. 10, No. 2, p. 46-52, March 1978

0878 49 Article, Transportation

Damping solid flow fluctuations
By Klinzing, G.E. University of Pittsburgh, Pittsburgh, Pennsylvania
Chemical Engineering Science, Vol. 34, 1979, p. 971-973, 1979

0878 50 Patent, Transportation, Beneficiation

Method for processing a slurry of coal particles in water
By Verschuur, E. Shell Research Limited, London, United-Kingdom
Assignee: Shell Research Ltd., Sept. 1978, 14p., C10L, Patent: South Africa, 78 00054, Jan. 1977, Appl. 77/577, Sept. 1978
Report No.: p. 7 800 054

0878 51 Book, Transportation, Environment

Hydrotransport, Progress Statement as at December 1978
Mining Technology Clearing House, Staffordshire, United-Kingdom
IEA Coal Working Party, Dec. 1978

0879 0 Report, Transportation

Mining Technology Clearing House, Project register 9 - 79, Transport
Mining Technology Clearing House, Staffordshire, United-Kingdom
Mining Technology Clearing House, Tamworth, Staffordshire, England, 1979

0879 1 Japanese Article, Transportation

Weathering of coal during storage
By Miura, Y.
Nenryo Kyokai-shi, Vol. 58, No. 2, Feb. 1979, p. 112-122, Feb. 1979

0879 2 Report, Transportation

Transportation of a premium coal fines product
By Campbell, T.C. Process Evaluation Office, Morgantown, West-Virginia
United-States Department of Energy, Washington, D.C., July 1979
Report No.: NTIS.FE-79/12

0879 3 Book, Transportation

Developmental research program for clean industrial and transportation fuels from coal, milestone report on solvent self sufficiency with equilibrium solvent and catalyst life testing period August 1977 - July 1978
By Long, R.H. / Schindler, H.D. Lummus Company, Bloomfield, New-Jersey
United-States Department of Energy, Washington, D.C., Feb. 1979
Report No.: NTIS.FE-2514-M2

0879 4 Article, Transportation, Geology

In transit wind erosion losses of coal and method of control
By Nimerick, K.H. / Laflin, G.P.
Min Eng (New York), Vol. 31, No. 8, Aug. 1979, p. 1236-1240, Aug. 1979

0879 5 Article, Transportation

Freeze conditioning frozen coal to ease handling and unloading problems
By Nimerick, K.H. / Scott, B.E. / Beafore, F.J. Dow Chemical Company, Tulsa, Oklahoma
Min. Eng. (New-York), Vol. 31, No. 9, p. 1380-1383, Sept. 1979

0879 6 Article, Transportation

Model for the self heating reaction of coal and char
By Nordon, P. CSIRO, Division of Textile Physics, North-Ryde, Australia
Fuel, Vol. 58, Iss. 6, p. 456-464, June 1979

0879 7 Article, Transportation

Better methods to fight frozen coal
By Chironis, N.P.
Coal Age, Vol. 84, No. 9, p. 86-89, 92, 95, Sept. 1979

0879 8 Article, Transportation

Geotechnical aspects of Thunder Bay terminals
By Seychuk, J.L. / Crooks, J.F. Golder Associates Ltd., Toronto, Ontario
CIM Bull., Vol. 72, No. 808, p. 80-89, Aug. 1979

0879 9 Article, Transportation

Thunder Bay terminals ltd. - Terminal plant design
By Carr, J. Carr, Donald & Associates, Toronto, Ontario
CIM Bull., Vol. 72, No. 808, p. 68-75, Aug. 1979

0879 10 Article, Transportation

Alternatives are studied for moving coal by pipeline
By Snoek, P.E. / Gandhi, R.L. / Weston, M.D. Bechtel, San-Francisco, California
Oil and Gas J., Vol 77, No. 35, p. 95-100, Aug. 1979

0879 11 Article, Transportation

Coming: New coal transportation modes
By Campbell, T.C. University of West-Virginia, Morgantown, West-Virginia
Mech. Eng., Vol. 101, No. 9, p. 36-43, Sept. 1979

0879 12 Article, Transportation

Leasing fights coal car shortages
By Sullivan, A.M.
Coal Age, Vol. 84, No. 12, p. 66-69, Dec. 1979

0879 13 Article, Transportation

Coal slurry pipelines for the next decade
By Wasp, E.J. Bechtel, San-Francisco, California
Mech. Eng., Vol. 101, No. 12, p. 38-45, Dec. 1979

0879 14 Article, Transportation

Metal removal from water by granular coal in coal slurry pipelines
By Shinn, M.H. / Manahan, S.E. University of Missouri-Columbia, Columbia, Missouri
Energy Commun., Vol. 5, No. 1, p. 75-83, 1979

0879 15 Article, Transportation

Mineral transportation
By Brown, D.D. Canada Department of Energy, Mines and Resources, Ottawa, Ontario
Can. Min. J., Vol. 100, No. 2, p. 53-54, 57, 59-60, Feb. 1979

0879 16 Article, Transportation

Model for evaluating alternate routes for exporting bulk commodities from an inland location to overseas markets
By Doll, C.L. / Waters, W.G. University of British-Columbia, Vancouver, British-Columbia
Infor. J., Vol. 17, No. 1, p. 1-15, Feb. 1979

0879 17 Article, Transportation, Mining

Clearing the way to faster haulage
By Amos, E.T. Dow Chemical Company, Midland, Michigan
Coal Min Process, Vol. 16, No. 11, p. 80, 82, 84, Nov. 1979

0879 18 Article, Transportation

Cutting out delays in the bulk loading of coal vehicles
By Holmes, H. Locker Industries Limited
Mining Technology, Vol. 61, No. 699, Jan. 1979, p. 24-25, Jan. 1979

0879 19 Article, Transportation, Mining

Trackless transport for men and materials
By Bristow, N. Mining Technology Clearing House, Staffordshire, United-Kingdom
Colliery Guardian, Vol. 227, No. 1, p. 37-43, Jan. 1979

0879 20 Article, Transportation, Mining

Vertical pneumatic transport of coal
By Nicholson, J.T. National Coal Board, North-Derbyshire, United-Kingdom
Mining Engineer (London) Vol. 138, No. 210, p. 657-665, March 1979

0879 21 Article, Transportation, Mining

Mining transport - short and long term considerations
By Watt, R.G. National Coal Board, London, United-Kingdom
Mining Engineer, Vol. 138, No. 211, p. 729-741, April 1979

0879 22 Article, Transportation, Mining

Slurry transportation in pipelines - a computer model for hydraulic backfilling systems
By Mozumdar, B.K. / Ghose, A.K. Indian School of Mines, Dhanbad, India
J Mines Met. Fuels, Vol. 27, No. 4, p. 101-105, April 1979

0879 23 Article, Transportation, Mining

Bulk conveyance and underground transports
By Pfannenstiel, P.K. Steinkohlenbergbauverein, Essen, Germany
Colliery Guardian, Vol. 227, No. 4, p. 32-42, April 1979

0879 24 Article, Transportation, Mining

Some aspects of vertical hydraulic conveying of large coal from a depth of 850 m
By Jordan, D. Siemag Transplan GmbH, Netphen, Germany
Colliery Guardian, Vol. 227, No. 4, p. 43-43, 45-47, April 1979

0879 25 Article, Transportation, Mining

Basics of choosing coal haulage equipment

Mining Equip. Int., Vol. 3, No. 6, p. 36-39, July 1979

0879 26 Article, Transportation

Review of the effects of corrosion inhibitors in coal water slurry pipelines
By Sastri, V.S. / Hoey, G.R. / Whalley, B.J. Physical Science Laboratory, Ottawa, Ontario
Can. Metallurgical Q., Vol. 18, No. 4, p. 435-440, April 1979

0879 27 Book, Transportation, Geology

Rheological properties of methacoal suspensions formulated from Texas lignite
By Darby, R. Texas A&M University, College-Station, Texas
United-States Department of Energy, Pittsburgh, Pennsylvania, 81 p., Aug. 1979
Report No.: PETC-10574-6

0879 28 Article, Transportation

Problems in the fluid mechanics of pipeline systems for hydraulic transport of solid materials
By Olofinskii, E.P.
Power Eng (N.Y.), Vol. 17, No. 4, p. 24-30, 1979

0879 29 Article, Transportation

Evaluating possible ways of improving the economic effectiveness of long distance hydraulic coal transport systems
By Borisenko, T.M. / Vodyanitskii, V.P.
Power Eng (N.Y.), Vol. 17, No. 4, p. 31-39, 1979

0879 30 Article, Transportation

Controller for filling rail tankers with coal tar
By Pankrat'ev, O.N. / Sosin, G.A. / Chernichenko, M.P.
Coke Chem, No. 8, p. 70-71, 1979

0879 31 Book, Transportation, Mining

Underground trials of a diesel powered face haulage
By Gunderman, R.J. Dresser Industries, Inc., Columbus, Ohio
United-States Department of Energy, 82p., Nov. 1979
Report No.: DOE/ET/10020-T1

0879 32 Book, Transportation, Mining

Steam engine analysis - final technical report
By Allbach, W.G. / Smith, M.J. / Wenshutonis, R.F. Barnes & Reinecke, Inc., Elk-Grove-Village, Illinois
United-States Department of Energy, 132p., June 1979
Report No.: FE-8917-2

0879 33 Book, Transportation, Mining

Evaluation of alternate hydraulic transport concepts for coal haulage in underground mines - final technical report
By Szekely, S.M. / Kurz, M.G. / Yegulap, T.M. Transflux International Limited, Fort-Lee, New-Jersey
United-States Department of Energy, 370p., Nov. 1979
Report No.: FE/9033-T1

0879 34 Conference proceedings, Transportation

Fuel economy of freight pipeline for transporting coal
By Liu, H.F. / Assadollahbaik, M. University of Missouri-Columbia, Columbia, Missouri
Proceedings of the 6th Annual UMR-DNR Conference on Energy, Oct. 16 - 18, 1979, University of Missouri-Rolla, Rolla, Missouri, p. 115-120, 1979

0879 35 Conference proceedings, Transportation, Mining

Front end loaders
By Lee, D.O. / Hurt, B. Clark Equipment Company, Benton-Harbor, Michigan
Symp Surf Coal Min Reclam, Coal Conference & Expo 5, Louisville, Kentucky Oct. 23/25, 1979, p. 42-50, 1979

0879 36 Conference proceedings, Transportation, Mining

Low wall conveyor system speeds productivity
By Gunnett, J.W. / Sole, T.L. Skelly and Loy, Harrisburg, Pennsylvania
Symp Surf Coal Min Reclam, Coal Conference & Expo 5, Louisville, Kentucky Oct. 23/25, 1979, p. 130-140, 1979

0879 37 Conference proceedings, Transportation, Mining

New look at effective use of trucks
By Waleski, W.E. / Force, S.J. Thunder Basin Coal Company, Gillette, Wyoming
Symp Surf Coal Min Reclam, Coal Conference & Expo 5, Louisville, Kentucky Oct. 23/25, 1979, p. 141-145, 1979

0879 38 Conference proceedings, Transportation, Combustion, Mining

Raw material storage and flow considerations
By Johnston, F.T. / Sadler, J.E.
I.C.S. Proceedings, 1979

0880 0 Book, Transportation

Cost models for coal transportation by common carrier
Manalytics, Inc. San Francisco, California
Electric Power Research Institute, Palo Alto, Calif., Jan. 1980, 199 p., Jan. 1980
Report No.: NTIS.EPRI EA-675

0880 1 Article, Transportation

Richards Bay Coal Terminal
By Dunn, M.B. Richards Bay Coal Terminal, Natal, South-Africa

J S Afr. Inst. Min. Metall., Vol. 80, No. 1, p. 57-61, Jan. 1980

0880 2 Report, Transportation, Energy Policy

The future economics of coal transport
By Lee, H.M. IEA Coal Research, London, United-Kingdom
IEA Coal Research Economic Assessment Service, 85 p., July 1980
Report No.: EAS D2/79

0880 3 Article, Transportation

North Dakota trains haul coal to power plant through a giant culvert

Better Roads, Vol. 50, No. 5, p. 28-30, May 1980

0880 4 Article, Transportation

Recent developments in transport systems
By Onley, J.K. National Coal Board, Bretby, United-Kingdom
Min Eng (London), Vol. 139, No. 221, p. 645-653, Feb. 1980

0880 5 Article, Transportation, Beneficiation

How to improve coal flow from storage bins
By Dumbaugh, G. Kinergy Corporation, Louisville, Kentucky
Coal Min. Process., Vol. 17, No. 4, p. 144-152, April 1980

0880 6 Article, Transportation, Mining

Continuous haulage at Island Creek
By Hunter, D. / Hatfield, S. Island-Creek Coal Company, Lexington, Kentucky
Min. Congress J, Vol. 66, No. 4, p. 22-25, April 1980

0880 7 Article, Transportation, Environment

Flue gas desulfurization and coal's upswing direct your attention to slurry pumping
By O'keefe, W.
Power, Vol. 124, No. 5, p. 25-35, May 1980

0880 8 Article, Transportation

Moving coal in the cold
By Bation, L. Ebasco Services Inc., New-York, New-York

Coal Mining Proc., Vol. 17, No. 10, p. 71-74, Oct. 1980

0880 9 Article, Transportation

Drag reduction by air injection for suspension flow in a horizontal pipeline
By Farooqi, S.I. / Heywood, N.I. / Richardson, J.F. University of Swansea, Swansea, United-Kingdom
Trans. Inst Chem Eng, Vol. 58, No. 1, p. 16-27, Jan. 1980

0880 10 Book, Transportation

Materials handling by slurry pipelines: Citations from the NTIS Data Base, 1964 July 1980
, 1980
Report No.: PB80-813728

0880 11 Patent, Transportation

Pipe Lining
By Buckell, R.A. Buckell Engineering Limited, Berkshire, United-Kingdom
Buckell Engineering Limited, March 1980, 2p., F16L9/02B32B1/08, F16L43/00, Patent: England, 2 028 461, Aug. 1979, Appl. 7 928 625, March 1980
Report No.: p. 2 028 461

0880 12 Patent, Transportation

Method for preparing a load of coal for transport by ship
By Verschuur, E. Shell International Petroleum, Hague, Netherlands
Assignee: Shell International Research, June 1980, 15p., C10L7/00, Patent: Canada, 1 078 611, Jan. 1976, Appl. 244 727, June 1980
Report No.: p. 1 078 611

0880 13 Article, Transportation

High grade western coal goes east
By Jackson, D.
Coal Age, Vol. 85, No. 6, p. 62-67, June 1980

0880 14 Article, Transportation

Getting the load out
By Ward, P.
Coal Min Process, Vol. 17, No. 5, p. 64-66, May 1980

0880 15 Patent, Transportation, Beneficiation

Removal of sulfur compounds from coal during pipeline transport
By Titus, P.E. Shell Oil Company, Houston, Texas
Assignee: Shell Oil Company, July 1980, 3p., 44/15R, C10L9/10, Patent: United-States, 4 210 422, Dec. 1978, Appl. 972 839, July 1980
Report No.: p. 4 210 422

0880 16 Patent, Transportation, Liquefaction

Transporting and storing a fluidized mixed fuel
By Nakabayashi, Y. / Nagata, K. / Fukuda, S. Mitsui Engineering & Shipbuilding Company, Tokyo, Japan
Assignee: Mitsui Engineering & Shipbuilding Company, Feb. 1980, 6p., C10L1/32, Patent: United-Kingdom, 2 027 446, July 1978, Appl. 7831400, Feb. 1980
Report No.: p. 2 027 446

0880 17 Article, Transportation

Immersed tube carries coal conveyor across bay
By Polz, K. / Kreuder-Sonnen, H. / Benrath, G. / Delac, D.
Tunnels Tunneling, Vol. 12, No. 2, p. 57-60, March 1980

0880 18 Article, Transportation, Mining

Kayenta Mine: A steady, big producer
By Carter, R.A.
Coal Min Process, Vol. 17, No. 11, p. 56-60, Nov. 1980

0880 19 Article, Transportation, Mining

Microprocessor balances cut test time at coal prep company

Min Eng (N.Y.), Vol. 32, No. 11, p. 1591-1592, Nov. 1980

0880 20 Article, Transportation, Mining

Mobile power supply
By Currie, J.A. / Kibble, J.D. National Coal Board, London, United-Kingdom
Min Eng (London), Vol. 139, No. 223, p. 785-796, April 1980

0880 21 Article, Transportation

New techniques for the scale up of pilot plant results to coal slurry pipelines
By Wilson, K.C. / Judge, D.G. Queen's University, Kingston, Ontario
J Powder & Bulk Solids Tech, Vol. 4, No. 1, p. 15-22, 1980

0880 22 Article, Transportation

Ontario Hydro boosts coal handling at Nanticoke with 7000 tph stacker
By Ketola, J.A.
Can Min J, Vol. 101, No. 6, p. 57-59, June 1980

0880 23 Article, Transportation, Mining

Rock cutting experiments with point attack tools
By Hurt, K.G.
Coll Guard, Vol. 228, No. 4, p. 47, 49-50, April 1980

0880 24 Article, Transportation

Slurry pump technology improvements are vital if coal is to live up to promises
By O'Keefe, W.
Power, Vol. 124, No. 7, p. 55-56, July 1980

0880 25 Article, Transportation

Steam locomotives
By Sharpe, J.E. University of London, London, United-Kingdom
Eng (London), Vol. 220, No. 12, p. 1348-1352, Dec. 1980

0880 26 Article, Transportation, Mining

West shows solid growth

Coal Age, Vol. 85, No. 5, p. 93-96, 99-100, May 1980

0880 27 Article, Transportation

Why leasing or renting railcars makes sense
By Guccione, E.
Coal Min Process, Vol. 17, No. 5, p. 56-58, May 1980

0880 28 Article, Transportation

Transient propagation in slurries with hold up
By Thorley, A.R. City University, London, United-Kingdom
J Hydraulics, Am Soc Civil Eng, Vol. 106, No. Hy8, p. 1353-1364, Aug. 1980

0880 29 Article, Transportation, Liquefaction

Calculate natural frequency of internal lined pipe
By Truong, K.T. / Tran, P.T. SNC, Inc., Montreal, Quebec
Hydrocarbon Process, Vol. 59, No. 12, p. 94-96, Dec. 1980

0880 30 Article, Transportation

Good future for coal
By Snowdon, B.
Eng (London), Vol. 220, No. 12, p. 1344-1347, Dec. 1980

0880 31 Article, Transportation

Effect of pipeline corrosion inhibitors on the caking poperties of metallurgical coals
By Sastri, V.S. / Hoey, G.R. / Whalley, B.J. Canada Department of Energy, Mines and Resources, Ottawa, Ontario
Fuel, Vol. 59, No. 11, p. 811-812, 1980

0880 32 Article, Transportation, Mining

A review of underground transport systems in the Barnsley area of the National Coal Board
By Shepherd, C. / Gilbert, S. National Coal Board, Cheltenham, Gloucestershire, United-Kingdom
Min Eng (London) Vol. 139, No. 225, p. 903-912, June 1980

0880 33 Patent, Transportation, Liquefaction

Method for storing and transporting mixed fluids

Assignee: Mitsubishi Jukogyo Kabushiki Kaisha, Sept. 1980, 5p., C10L1/32, Patent: England, 1 575 787, May 1977, Appl. 77/60 171, Sept. 1980

0880 34 Article, Transportation, Combustion

Combustion control in coal burning ships
By Edwards, G. Sydney Technical College, Sydney, Nova-Scotia
Mar Eng Rev, p. 18-20, Sept. 1980

0880 35 Report, Transportation

Evaluation of effects of alternative western freight rates for coal
By Chamberlain, I.
United-States Department of Energy, 21p., 1980
Report No.: DOE/EIA-0184/25

0880 36 Conference proceedings, Transportation, Combustion

Economic evaluation of alternative coal supplies
By Carlson, K.E. Black & Veatch, Kansas-City, Missouri
Proc Am Power Conf, Vol. 42, Chicago, Illinois, April. 21-23, 1980, p. 185-193, 1980

0880 37 Conference proceedings, Transportation

Evaluating freeze conditioning agents at the Union Electric Company
By Walk, M.J. Union Electric Company, St.-Louis, Missouri
Electr Power Res Inst Workshop Proc Natl Conf and Workshop on Coal Freezing, Cincinnati, Ohio, Mar. 31-Apr. 1, 1980, p. 3/49-3/66, 1980
Report No.: EPRI WS 80-119

0880 38 Conference proceedings, Transportation

The use of chemical tracers to detect the presence of FCA on treated coal
By Straub, W.A. United-States Steel Corporation, Monroeville, Pennsylvania
Electr Power Res Inst Workshop Proc Natl Conf and Workshop on Coal Freezing, Cincinnati, Ohio, Mar. 31-Apr. 1, 1980, p. 3/44-3/48, 1980

0880 39 Conference proceedings, Transportation

Coal de icing program at ARCO's Black Thunder mine
By Mays, M.A. / Ramachandran, G. ARCO Coal Company, Denver, Colorado
Electr Power Res Inst Workshop Proc Natl Conf and Workshop on Coal Freezing, Cincinnati, Ohio, Mar. 31-Apr. 1, 1980, p. 7/20-7/27, 1980

0880 40 Conference proceedings, Transportation

Mechanical devices for handling coal in freezing weather
By Sargent, G.A. Ford, Bacon & Davis, Inc., New-York, New-York
Electr Power Res Inst Workshop Proc Natl Conf and Workshop on Coal Freezing, Cincinnati, Ohio, Mar. 31-Apr. 1, 1980, p. 7/2-7/16, 1980

0880 41 Conference proceedings, Transportation

Kansas City Power and Light Company's history of frozen coal problems and its experience with mine application of freeze conditioning additives (FCA) during 1980
By Russell, C.E. Kansas City Power and Light Company, Kansas-City, Missouri
Electr Power Res Inst Workshop Proc Natl Conf and Workshop on Coal Freezing, Cincinnati, Ohio, Mar. 31-Apr. 1, 1980, p. 6/12-6/24, 1980

0880 42 Conference proceedings, Transportation

Freezing problems during rail transport
By Colijn, H. Consulting Engineers, Monroeville, Pennsylvania
Electr Power Res Inst Workshop Proc Natl Conf and Workshop on Coal Freezing, Cincinnati, Ohio, Mar. 31-Apr. 1, 1980, p. 5/6-5/22, 1980

0880 43 Conference proceedings, Transportation

Application of freeze conditioning agents to coal and other minerals
By Cox, H.B. United-States Steel Corporation, Monroeville, Pennsylvania
Electr Power Res Inst Workshop Proc Natl Conf and Workshop on Coal Freezing, Cincinnati, Ohio, Mar. 31-Apr. 1, 1980, p. 4/8-4/25, 1980

0880 44 Conference proceedings, Transportation

Measuring the effectiveness of FCA
By Carson, J.W. Jenike and Johanson, Incorporated, Billerica, Massachusetts
Electr Power Res Inst Workshop Proc Natl Conf and Workshop on Coal Freezing, Cincinnati, Ohio, Mar. 31-Apr. 1, 1980, p. 3/24-3/31, 1980

0881 0 Conference proceedings, Transportation, Energy Policy

The world coal trade
By Waring, D.
A Symposium on Coal - The New Energy, Edmonton, Alberta, April 7/8, 1981, 11p., 1981

0881 1 Book, Transportation

Hydrotransport cooperative programme. Notes of meeting held on Feb 23 24, 1981
Mining Technology Clearing House, Staffordshire, United-Kingdom
IEA Coal Research, 32p., Feb. 1981

0881 2 Article, Transportation

How to model your coal handling system to optimize availability, cut costly time
By Rose, L.A. / Pipis, J.S. Detroit Edison Company, Detroit, Michigan
Power, Vol. 125, No. 2, p. 68-70, Feb. 1981

0881 3 Article, Transportation, Mining

Analyze haul truck cost wisely
By Kaufman, D. / Bowen, R.J. Euclid, Inc., Cleveland, Ohio
Coal Age, Vol. 86, No. 3, p. 70-72, 75-77, March 1981

0881 4 Article, Transportation

Coal/methanol slurry lines show promise
By Aude, T.C. / Chapman, J.P. Pipeline Systems Incorporated, Orinda, California
Oil Gas J, Vol. 79, No. 28, p. 135-140, 1981

0881 5 Article, Transportation, Gasification, Liquefaction

Coal gasification and liquefaction solutions for energy transport
By Rortgen, H.G. / Lenz, U. Rheinische Braunkohlenwerke AG, Koln, Germany
Comm Eur Communities (Rep) Eur, No. 6979, p. 300-357, 1981

0881 6 Article, Transportation, Mining

Capsule hoist system for vertical transport of coal and other mineral solids
By Hwang, L.Y. / Wood, D.J. / Kao, D.T. University of Kentucky, Lexington, Kentucky
Can J Chem Eng, Vol. 59, No. 3, p. 317-324, 1981

0881 7 Article, Transportation

Cordero set to move 24 million tpy
By Jackson, D.
Coal Age, Vol. 86, No. 3, p. 62-64, March 1981

0881 8 Report, Transportation

Coal slurry pipeline feasibility study
Fluor Canada Limited, Calgary, Alberta
Alberta Economic Development Energy and Natural Resources, 1000p., Nov. 1981

0881 9 Report, Transportation, Environment

Water pollution potential of coal slurry pipelines
By Peavy, H.S. Montana State University, Bozeman, Montana
United-State Environmental Protection Agency, 7p., June 1981
Report No.: 600//S7-81-082

0881 10 Article, Transportation

Transportation of western coal
By Lorentzsen, N.M.
Min Congr J, Vol. 67, No. 5, p. 35-37, May 1981

0881 11 Article, Transportation, Combustion

Mixing of slurries near the ultimate settled solids concentration
By Oldshue, J.Y. Mixing Equipment Company, Rochester, New-York
Chem Eng Prog, Vol. 77, No. 5, p. 95-98, May 0981

0881 12 Conference proceedings, Transportation

Pipeline transportation of coal
By Aude, T.C. Pipeline Systems Incorporated, Orinda, California
Symp.Pap. Advances Coal Utilization Technology IV, April 20-24, 1981, Denver, Colorado, p. 515-527, 1981

0881 13 Conference proceedings, Transportation

Coal supply/demand 1980 2000 - A transportation analysis
By Haar, L. Texas Eastern Transmission Corporation, Houston, Texas
Symp.Pap. Advances Coal Utilization Technology IV, April 20-24, 1981, Denver, Colorado, p. 787-952, 1981

0881 14 Article, Transportation, Properties

The effect of saline concentration on the viscous properties of lignite water suspensions
By Darby, R. / Mallett, M.W. Texas A&M University, College-Station, Texas
Can J Chem Eng, Vol. 59, No. 3, p. 341-346, 1981

0881 15 Article, Transportation

An update of the ETSI pipeline
By Wasp, E.J. Energy Transportation Systems, Inc., San-Francisco, California
Coal Min Process, Vol. 18, No. 11, p. 56-57, 59, 61, 1981

0881 16 Article, Transportation

A regional railroad network optimization model for coal transportation
By Chang, C.J. / Miles, R.D. / Sinha, K.C. Marquette University, Milwaukee, Wisconsin
Transp Res Part B, Vol. 158, No. 4, p. 227-238, Aug. 1981

0881 17 Article, Transportation

Conveyor pipe tunnel under McKellar River

Can Consult Eng, 3p., Oct. 1981

0881 18 Article, Transportation

Great Lakes move U.S. export coal
By Sullivan, A.M.
Coal Age, Vol. 86, No. 10, p. 98-101, Oct. 1981

0881 19 Article, Transportation

Coal moves through Morehead City
By Sullivan, A.M.
Coal Age, Vol. 86, No. 9, p. 113, 115, Sept. 1981

0881 20 Article, Transportation

Slurry pipelines. design, research and experience
By Thompson, T.L. / Aude, T.C. Pipeline Systems Incorporated, Orinda, California
J Pipelines, Vol. 1, No. 1, p. 25-44, Jan. 1981

0881 21 Conference proceedings, Transportation

Slurry transportation overview
By Lay, K.L. Continental Resources Company, Winter-Park, Florida
Sixth International Technical Conf on Slurry Transportation, Las-Vegas, Nevada, March, 1981, p. 3-4, 1981

0881 22 Conference proceedings, Transportation

The Alton pipeline project and the Allen Warner Valley energy system
By Arlidge, J.W.
Sixth International Technical Conf on Slurry Transportation, Las-Vegas, Nevada, March, 1981, p. 5-8, 1981

0881 23 Conference proceedings, Transportation

Pacific bulk transportation system
By Kopeikin, L.I. BE&C Engineers Incorporated, Tukwilla, Washington
Sixth International Technical Conf on Slurry Transportation, Las-Vegas, Nevada, March, 1981, p. 9-11, 1981

0881 24 Conference proceedings, Transportation

Progress report on the ETSI coal slurry pipeline
By Wasp, E.J.
Sixth International Technical Conf on Slurry Transportation, Las-Vegas, Nevada, March, 1981, p. 15-19, 1981

0881 25 Conference proceedings, Transportation

Coalstream pipeline company: subsidiary of continental resources company
By Dorris, A.D.
Sixth International Technical Conf on Slurry Transportation, Las-Vegas, Nevada, March, 1981, p. 20-21, 1981

0881 26 Conference proceedings, Transportation

From Reynolds to Wasp - Development of an Industry
By Thompson, T.L. Pipeline Systems Incorporated, Orinda, California
Sixth International Technical Conf on Slurry Transportation, Las-Vegas, Nevada, March, 1981, p. 23-40, 1981

0881 27 Conference proceedings, Transportation

Coarse coal systems for unloading ships and overland transport
By Kakka, R.S. IHC Holland NV, The Netherlands
Sixth International Technical Conf on Slurry Transportation, Las-Vegas, Nevada, March, 1981, p. 57-71, 1981

0881 28 Conference proceedings, Transportation

Coarse particle slurries and their use with offshore terminals to load bulk carriers
By Funk, E.D. / Barrett, M.D. Kamyr Incorporated, Glen-Falls, New-York
Sixth International Technical Conf on Slurry Transportation, Las-Vegas, Nevada, March, 1981, p. 72-80, 1981

0881 29 Conference proceedings, Transportation

Rheological and hydromechanical investigations into the behavior of coking coal suspensions transported in pipelines
By Klose, R.B. Stahlwerke Peine-Salzgitter AG, Salzgitter, Germany
Sixth International Technical Conf on Slurry Transportation, Las-Vegas, Nevada, March, 1981, p. 100-104, 1981

0881 30 Conference proceedings, Transportation

A rheology based correlation for minimum deposition velocities
By Hanks, R.W. / Sloan, D.G. Brigham-Young University, Provo, Utah
Sixth International Technical Conf on Slurry Transportation, Las-Vegas, Nevada, March, 1981, p. 107-120, 1981

0881 31 Conference proceedings, Transportation

Theoretical considerations and laboratory investigations about water hammer propagation velocity in slurry pipelines
By Bechteler, W. / Vogel, G. Institut fur Wasserwesen Lehrstuhl fur hydromechanik und hydrologie hochschule der bundeswehr, Munchen, Germany
Sixth International Technical Conf on Slurry Transportation, Las-Vegas, Nevada, March, 1981, p. 131-137, 1981

0881 32 Conference proceedings, Transportation

Differential flow rheometer
By Pouska, G.A. / Link, J.M. Colorado School of Mines, Golden, Colorado
Sixth International Technical Conf on Slurry Transportation, Las-Vegas, Nevada, March, 1981, p. 138-142, 1981

0881 33 Conference proceedings, Transportation

The economics of positive displacement slurry pumps
By Holthuis, C.H. / Simons, P.W. Holthuis B.V., The Netherlands
Sixth International Technical Conf on Slurry Transportation, Las-Vegas, Nevada, March, 1981, p. 156-161, 1981

0881 34 Conference proceedings, Transportation

Valve design for slurry systems
By Patton, A.J. Gulf and Western, Advanced Development and Engineering Center, Swarthmore, Pennsylvania
Sixth International Technical Conf on Slurry Transportation, Las-Vegas, Nevada, March, 1981, p. 184-187, 1981

0881 35 Conference proceedings, Transportation, Beneficiation

Technical and economic aspects of hydraulic coarse solids transportation at the Hansa hydraulic mine
By Harzer, H. / Kortenbusch, W. Ruhrkohle AG, Bergbau AG Westfalen, Germany
Sixth International Technical Conf on Slurry Transportation, Las-Vegas, Nevada, March, 1981, p. 205-212, 1981

0881 36 Conference proceedings, Transportation, Environment

Effluent characteristics and discharge permit considerations for the ETSI coal slurry pipeline
By Plummer, A.H. / Derammelaere, R.H. / Eiserman, F.M. Alan H. Plummer and Associates Incorporated, Arlington, Texas
Sixth International Technical Conf on Slurry Transportation, Las-Vegas, Nevada, March, 1981, p. 255-265, 1981

0881 37 Conference proceedings, Transportation

Coal transportation: an analysis of cost and energy requirements
By Prassone, M. / Testa, G. / Ferrini, F. / Foramitti, E. / Simonetti, F. / Giacomazzi, G. / Montellanico, P.
Commission of the European Communities, Joint Research Centre, Varese, Italy
Sixth International Technical Conf on Slurry Transportation, Las-Vegas, Nevada, March, 1981, p. 266-277, 1981

0881 38 Conference proceedings, Transportation

Economic optimum design of a methacoal pipeline
By Qureshi, A. / Darby, R. Texas A&M University, College-Station, Texas
Sixth International Technical Conf on Slurry Transportation, Las-Vegas, Nevada, March, 1981, p. 278-288, 1981

0881 39 Conference proceedings, Transportation, Energy Policy

Expediting the licensing procedure for a slurry transport project
By Hartman, R.M. / Cooper, R.J. Envirosphere Company, Norcross, Georgia
Sixth International Technical Conf on Slurry Transportation, Las-Vegas, Nevada, March, 1981, p. 291-295, 1981

0881 40 Conference proceedings, Transportation

Relationships in the siting of power plants, slurry pipelines, unit trains and other energy tranportation
By West, L.B. / Tauxe, G.W. University of Oklahoma, Norman, Oklahoma
Sixth International Technical Conf on Slurry Transportation, Las-Vegas, Nevada, March, 1981, p. 296-303, 1981

0881 41 Conference proceedings, Transportation, Environment

The effects of coal slurry pipelining of eastern coal on water quality
By Moore, J.W. University of Arkansas, Fayetteville, Arkansas
Sixth International Technical Conf on Slurry Transportation, Las-Vegas, Nevada, March, 1981, p. 304-310, 1981

0881 42 Conference proceedings, Transportation

Hardened steel pipe provides longer life in wear areas of slurry transportation systems
By Bhargava, R.K. / Parrott, E.R. Xtek, Inc., USA
Sixth International Technical Conf on Slurry Transportation, Las-Vegas, Nevada, March, 1981, p. 351-356, 1981

0881 43 Conference proceedings, Transportation

A review of U.S. coal slurry pipeline industry: why - why not?
By Steffes, D.W. Planning & Forcasting Consultants, USA
Sixth International Technical Conf on Slurry Transportation, Las-Vegas, Nevada, March, 1981, p. 359-366, 1981

0881 44 Article, Transportation

Pipeline flow of coarse coal slurries
By Shook, C.A. / Haas, D.B. / Husband, W.H. / Small, M. / Gillies, R. University of Saskatchewan, Saskatoon, Saskatchewan, Jan. 1981

0881 45 Article, Transportation

How to lighten trucks to haul bigger payloads
By Smiley, C.H.
Coal Min Process, Vol.18, No. 7, p. 90-91, July 1981

0881 46 Patent, Transportation

Granulating Apparatus
By Ogino, E. / Yoshii, N. / Haradai, K. Hitachi Shipbuilding & Engineering Company, Ltd., Osaka, Japan
Assignee: Hitachi Shipbuilding, Oct. 1981, 15p., B01J 2/10, Patent: United-Kingdom, 2 073 649, March 1981, A, Appl. 8109521, Oct. 1981
Report No.: p. 2 073 649

0881 47(*) Conference proceedings, Transportation

Coal Technology '81, Vol. 1

Fourth Annual Coal Utilization Exhibition & Conference, Vol. 1, Houston, Texas, Nov. 17/19, 1981, 265p., 1981

0881 48(*) Conference proceedings, Transportation, Environment

Coal Technology '81, Vol. 2

Fourth Annual Coal Utilization Exhibition & Conference, Vol. 2, Houston, Texas, Nov. 17/19, 1981, 320p., 1981

0881 49 Conference proceedings, Transportation

Flow of coarse coal in 150, 250 and 500 mm pipelines
By Gillies, R. / Haas, D. / Husband, W.H. / Small, M. University of Saskatchewan, Saskatoon, Saskatchewan
Proc of the 64th CIC Coal Symp, Halifax, Nova-Scotia, May 31-June 3, 1981, Vol. 1, p. 262-268, 1981

0881 50 Report, Transportation, Mining, Beneficiation

Wear resistant alloys for coal handling equipment - Final Technical Report, October 1, 1977 March 31, 1981
By Garrison, W.M. / Parker, E.R. / Misra, A. / Finnie, I. University of California, Berkeley, California
United-States Department of Energy, 149p., 1981
Report No.: DOE/ET/10698-T3

0882 0 Article, Transportation, Properties

Physical chemistry of frozen coal
By Glanville, J.O. / Haley, L.H. Wen-Don Corp., Roanoke, Virginia
Min Eng, p. 182-186, Feb. 1982

0882 1 Article, Transportation

A new black gold for pipelines?
By Lauzon, M.
Can Chem Proc., p. 30-31, 60, Feb. 1982

0882 2 Conference proceedings, Transportation

Slurry pipeline development centre at Saskatoon
By Husband, W.H. / Small, M. / Gillies, R. / Haas, D. Saskatchewan Research Council, Saskatoon, Saskatchewan
CIM 2nd Technical Conf on Western Canadian Coals, June 2-4, 1982, Edmonton, Alberta, 28p., 1982

0882 3 Conference proceedings, Transportation

Potential for water slurry transport of Alberta coal to Pacific tidewater
By Demcoe, P. / Danzinger, W.A. Alberta Energy and Natural Resources, Edmonton, Alberta
CIM 2nd Technical Conf on Western Canadian Coals, June 2-4, 1982, Edmonton, Alberta, 16p., 1982

0882 4 Article, Transportation

Better haul roads speed operations

Coal Age, March, 1982, p. 96-99, 1982

0882 5 Conference proceedings, Transportation

Development of coal/liquid CO//2 slurry transportation - current status
By Santhanam, C.J. Arthur D. Little, Inc., Cambridge, Massachusetts
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 203-209, 1982

0882 6 Conference proceedings, Transportation

Coal transportation - the economic alternatives
By Aude, T.C. / Thompson, T.L. Pipeline Systems Incorporated, Orinda, California
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 211-216, 1982

0882 7 Conference proceedings, Transportation, Gasification, Beneficiation

An overview of proposed coal slurry technologies and their cost saving applications
By Lee, H.M. IEA Coal Research, London, United-Kingdom
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 217-223, 1982

0882 8 Conference proceedings, Transportation

Stapelton: proposed coal export terminal on Staten Island, New York, using coal slurry technology
By Orr, L.P. City of New York, Department of Ports and Terminals, New-York, New-York
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 225-232, 1982

0882 9 Conference proceedings, Transportation

Controlling bulk inventories for slurry preparation
By Howell, R.C. Brown & Root Incorporated, Houston, Texas
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 249-255, 1982

0882 10 Conference proceedings, Transportation

Coal transport chain: a cost and energy analysis of two technical systems: a slurry system vs. a conventional bulk transport system
By Prassone, M. / Testa, G. / Ferrini, F. / Foramitti, E. / Giacomazzi, G. / Montellanico, P. Italimpianti, Genova, Italy
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 257-271, 1982

0882 11 Conference proceedings, Transportation, Environment

Water quality as a factor in the refuse and disposal of coal slurry water
By Peavy, H.S. Montana State University, Bozeman, Montana
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 279-289, 1982

0882 12 Conference proceedings, Transportation

Linear routing methodologies to locate slurry pipelines
By Dressler, R.L. Gilbert/Commonwealth, Jackson, Missouri
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 291-294, 1982

0882 13 Conference proceedings, Transportation

Coal slurry dewatering operations wastewater treatability studies
By Plummer, A.H. / Jordan, B. / Derammelaere, R. / Sandhu, A. Alan H. Plummer and Associates Incorporated, Arlington, Texas
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 295-305, 1982

0882 14 Conference proceedings, Transportation

Water quality aspects of coal slurry pipelining - a literature survey
By Moore, J.W. University of Arkansas, Fayetteville, Arkansas
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 307-313, 1982

0882 15 Conference proceedings, Transportation, Environment

Water quality simulation for the design of the ETSI wastewater treatment facilities
By Sandu, A.S. / Gandhi, R.L. ETSI Pipeline Project, San-Francisco, California
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 315-317, 1982

0882 16 Conference proceedings, Transportation

Calculating transient flows in slurry pipelines
By Bechteler, W. / Vogel, G. Institut fur Wasserwesen, Munchen, Germany
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 319-324, 1982

0882 17 Conference proceedings, Transportation, Beneficiation

Abrasiveness of fine grain particles in slurry machinery
By Elmore, C. / Funk, E.D. / Rabinowicz, E. Kamyr Incorporated, Glen-Falls, New-York
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 327-329, 1982

0882 18 Conference proceedings, Transportation

Studies on molybdate as pipeline corrosion inhibitor in coal water slurries
By Sastri, V.S. / Beauprie, R. / Desgagne, M. CANMET, Ottawa, Ontario
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 331-334, 1982

0882 19 Conference proceedings, Transportation

An examination of flexible pipe for slurry use
By Mullen, C. Coflexip & Services Incorporated, Houston, Texas
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 335-337, 1982

0882 20 Conference proceedings, Transportation

The CRC automatic pipeline welding system
By Jones, R.L. / Hall, J. CRC Automatic Welding, Houston, Texas
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 339-344, 1982

0882 21 Conference proceedings, Transportation, Environment

Lining coal slury pipeline ponds with soil cement
By Dinchak, W.G. Portland Cement Association, Skokie, Illinois
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 345-349, 1982

0882 22 Conference proceedings, Transportation, Combustion

Pipe behavior in bottom ash slurry systems
By Kovago, J. M.H. Detrick Company, Linwood, New-Jersey
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 351-367, 1982

0882 23 Conference proceedings, Transportation, Beneficiation

The effect of particle size distribution on the economics of short distance coal slurry pipelines
By Elsibai, N.G. / Snoek, P.E. / Pitts, J.D. Bechtel, San-Francisco, California
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 371-375, 1982

0882 24 Conference proceedings, Transportation

Alberta coal supply pipeline study - 1981
By Jacques, R.B. / Aude, T.C. / Ricks, B.L. / Rabb, D. Fluor Ocean Services Limited, Houston, Texas
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 377-388, 1982

0882 25 Conference proceedings, Transportation

Computer application of a preliminary feasibility model to a Turkish iron ore and a Virginia coal slurry pipeline
By Yucel, O. / Dabak, T. Virginia Polytechnic Institute and State University, Blacksburg, Virginia
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 389-398, 1982

0882 26 Conference proceedings, Transportation

Prediction of size degradation of coarse coal during slurry pipeline transportation
By Mikhail, M.W. / Mikula, R.J. / Husband, W.H. CANMET, Edmonton, Alberta
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 399-404, 1982

0882 27 Conference proceedings, Transportation, Beneficiation

Removal of fines from recirculation water in a coal slurry system
By Bigley, D.N. / Coudriet, L.A. / Decker, C.J. Conoco Inc., Stamford, Connecticut
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 405-410, 1982

0882 28 Conference proceedings, Transportation

Novel slurry transport medium
By Bradley, G.M. Petrolite Corporation, St.-Louis, Missouri
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 411-418, 1982

0882 29 Conference proceedings, Transportation

Operating experience of the Black Mesa pipeline
By Montfort, J.G. Black Mesa Pipeline Incorporated, Flagstaff, Arizona
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 421-429, 1982

0882 30 Conference proceedings, Transportation, Beneficiation

Maintenance of coal slurry dewatering equipment and the application of a Predix diagnostic system
By Halloran, J.J. / Smith, D.J. Combustion Engineering, Inc., Windsor, Connecticut
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 431-442, 1982

0882 31 Conference proceedings, Transportation

Slurry transportation overview
By Workman, R. Continental Resources Company, Winter-Park, Florida
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 3-4, 1982

0882 32 Conference proceedings, Transportation

ETSI to date
By Wasp, E.J. ETSI Pipeline Project, San-Francisco, California
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 5-7, 1982

0882 33 Conference proceedings, Transportation

Powder River pipeline project
By Westhoff, W.J. Powder River Pipeline Incorporated, Jackson, Missouri
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 9, 1982

0882 34 Conference proceedings, Transportation

The Alton pipeline Allen Warner Valley energy system
By Arlidge, J.W. Nevada Power Company, Las-Vegas, Nevada
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 11-14, 1982

0882 35 Conference proceedings, Transportation

Coalstream pipeline project
By Dorris, A.D. Coalstream Pipeline Company, Winter-Park, Florida
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 15-16, 1982

0882 36 Conference proceedings, Transportation

Pacific Bulk transportation system
By Sterry, W.M. BE&C Engineers Incorporated, Tukwilla, Washington
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 17-19, 1982

0882 37 Conference proceedings, Transportation

San Marco pipeline
By Gillaspie, M.W. San Marco Pipeline Company, Houston, Texas
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 21-22, 1982

0882 38 Conference proceedings, Transportation

Coal slurry pipelines in Virginia: a preliminary feasibility study status report
By Combs, R.T. Virginia Electric and Power Company, Richmond, Virginia
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 23-26, 1982

0882 39 Conference proceedings, Transportation

ETSI coal evaluation plant
By Derammelaere, R.H. / Dina, M.L. / McEwan, P.F. ETSI Pipeline Project, San-Francisco, California
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 27-32, 1982

0882 40 Conference proceedings, Transportation, Environment

Environmental impact statement - the ETSI project
By Eiserman, F.M. / Troy, H.M. ETSI Pipeline Project, Casper, Wyoming
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 33-36, 1982

0882 41 Conference proceedings, Transportation

Technical aspects of shiploading coal slurries
By Faddick, R.R. Colorado School of Mines, Golden, Colorado
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 45-49, 1982

0882 42 Conference proceedings, Transportation

Hydraulic transport of coarse solids in circular and segmented pipes
By Sauermann, H.B. National Mechanical Engineering Research Institute, Pretoria, South-Africa
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 51-60, 1982

0882 43 Conference proceedings, Transportation

The hydraulic transport of coal suspensions with coarse particles
By Klose, R.B. Stahlwerke Peine-Salzgitter AG, Salzgitter, Germany
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 61-64, 1982

0882 44 Conference proceedings, Transportation

Survey of coarse coal slurries
By Kakka, R.S. / Gandhi, R.L. Bechtel, San-Francisco, California
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 65-74, 1982

0882 45 Conference proceedings, Transportation, Beneficiation

Integration of mine dewatering installations with a hydraulic hoisting system
By Seligren, A. University of Lulea, Lulea, Sweeden
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 75-80, 1982

0882 46 Conference proceedings, Transportation

Coal slurry shiploading world trade applications
By Wang, G.S. Bechtel, San-Francisco, California
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 81-89, 1982

0882 47 Conference proceedings, Transportation

Application of the electronically controlled synchronous motor to slurry pipeline pumping
By Fuchs, E.A. / Gutzwiller, R.A. General Electric Company, Schenectady, New-York
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 93-103, 1982

0882 48 Conference proceedings, Transportation

Application and experience of hydroviscous drives in slurry pipeline pump service
By Liu, J.K. Philadelphia Gear Corporation, King-of-Prussia, Pennsylvania
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 105-111, 1982

0882 49 Conference proceedings, Transportation

Plunger flush system
By Null, L.G. Continental Emsco Company, Houston, Texas
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 113-126, 1982

0882 50 Conference proceedings, Transportation

High pressure coal slurry pumping with hydraulic exchange pumps
By Chowdhury, A.K. / Zoborowski, M.E. ZIMPRO Incorporated, Rothschild, Wisconsin
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 127-132, 1982

0882 51 Conference proceedings, Transportation

Pump scaling and leakage characteristics of a positive displacement rotary ram slurry pump

By Stewart, D.B. University of New-South-Wales, Duntroon, Australia
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 133-138, 1982

0882 52 Conference proceedings, Transportation

Power characteristics of two principal axial impeller types for slurry holding tanks
By Chudacek, M.W. M.D. Research Company, PTY, Limited, North-Ryde, Australia
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 139-148, 1982

0882 53 Conference proceedings, Transportation, Properties

A new viscometer for determining the effect of particle size distributions and concentration on slurry rheology
By Hanks, R.W. / Hanks, K.W. Brigham-Young University, Provo, Utah
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 151-161, 1982

0882 54 Conference proceedings, Transportation, Properties

The effects of viscosity reducing chemical additives on slurry rheology and pipeline transport performance for various mineral slurries
By Sikorski, C.F. / Lehman, R.L. / Shepherd, J.A. FMC Corporation, Princeton, New-Jersey
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 163-173, 1982

0882 55 Conference proceedings, Transportation

Computational approach for coal slurry pipelines
By Roco, M.C. / Shook, C.A. University of Kentucky, Lexington, Kentucky
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 175-192, 1982

0882 56 Conference proceedings, Transportation, Environment

Computer assisted data analysis of slurry pipeline route selection
By Hartman, R.M. Envirosphere Company, Norcross, Georgia
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 193-195, 1982

0882 57 Conference proceedings, Transportation

Laminar transport of Bingham plastic slurries
By Wicker, G.R. Amax Extractive R&D, Golden, Colorado
Seventh International Technical Conf on Slurry Transportation, Lake-Tahoe, Nevada, March 23/26, 1982, p. 197-199, 1982

0882 58 Article, Transportation, Mining

Coal transport, handling improved at Devco

Can Min J, Vol 103, No. 4, p. 35-41, April 1982

0882 59 Patent, Transportation, Liquefaction

Coal oil slurry pipeline process
By Denker, B.L. / Maruhnic, P. Hydrocarbon Research, Inc., Lawrenceville, New-Jersey
Assignee: Hydrocarbon Research Inc., Jan. 1982, 5p., 208/8 LE, C10G 1/00, Patent: United-States, 4 309 269, May 1979, Appl. 43 856, Jan. 1982
Report No.: p. 4 309 269

0882 60 Article, Transportation, Mining

Transport systems in mining in the USA
By Kent, C.M.
Min Eng, Vol. 6, p. 667-670, May 1982

0882 61 Article, Transportation

Rotterdam slows port development
By Walfish, A. McGraw-Hill World News, New-York, New-York
Coal Age, Vol. 87, No. 8, p. 62-63, Aug. 1982

0882 62 Conference proceedings, Transportation

Canada's coal can be delivered
By Norris, M. BC Rail, British-Columbia
The Coal Association of Canada 34th Conf on Coal, Sept. 19-21, 1982, Toronto, Ontario, 15p., 1982

0882 63 Conference proceedings, Transportation, Energy Policy

On time, on target
By Horner, J.H. Canadian National Railway
The Coal Association of Canada 34th Conf on Coal, Sept. 19-21, 1982, Toronto, Ontario, 12p., 1982

0882 64 Conference proceedings, Transportation

Western Canadian coal transport by slurry pipeline
By Rabb, J.D. / Jacques, R.B. / Ricks, B.L. / Aude, T.C. Fluor Canada Limited, Calgary, Alberta
Pap Pres at 32 Can Chem Eng Conf, Vancouver, British-Columbia, Oct. 3-6, 1982, Vol. 1, p. 481-490, 1982

0882 65 Conference proceedings, Transportation

Coal terminal operations
By Edgar, G.M. Westshore Terminals Limited, Vancouver, British-Columbia
The Coal Association of Canada 34th Conf on Coal, Sept. 19-21, 1982, Toronto, Ontario, 13p., 1982

0882 66 Article, Transportation

The relationship between cargo characteristics and bulk chemical tanker design and construction
By Farrell, T.R. Tanker and Gas Carrier Group, London, United-Kingdom
Chem Eng, Vol. 24, No. 7, p. 275-280, July 1982

0882 67 Article, Transportation

Industry warms to freeze control
By Green, P.
Coal Age, Vol. 87, No.9, p. 56-57, Sept. 1982

0882 68 Article, Transportation, Mining, Environment

Environmental design considerations for belt conveyors
By Goodfellow, H.D. / Bender, M. Hatch Associates Ltd., Toronto, Ontario
CIM Bull, Vol. 75, No. 845, p. 97-104, Sept. 1982

0882 69 Article, Transportation

Overland conveyor systems
By Craighead, D.C. Allis-Chalmers Canada Inc., Belleville, Ontario
CIM Bull, Vol. 75, No. 845, p. 105-108, Sept. 1982

0882 70 Article, Transportation, Mining

Belt conveyor booster drives
By Stewart, J.A. Cape-Breton Development Corporation, Cape-Breton, Nova-Scotia
CIM Bull, Vol. 57, No. 845, p. 109-112, Sept. 1982

0882 71 Patent, Transportation

Oil based side release agents for coal cars
By Kekish, G.T. / Kugel, R.W. Nalco Chemical Company, Oak-Brook, Illinois
Assignee: Nalco Chemical Company, Jan. 1982, 6p., 427/236, B05D 1/02, Patent: United-States, 4 312 901, April, 1980, Appl. 144,119, Jan. 1982
Report No.: p. 4 312 901

EXPLORATION

0964 0 Article, Exploration, Mining, Combustion, Beneficiation

Coal research in Canada, 1963
By Berkowitz, N. Alberta Research Council, Edmonton, Alberta
Canadian Mining and Metallurgical Bulletin, Sept. 1964, Alberta Research Council, Edmonton, Alberta, Contribution No. 265, Sept. 1964
Report No.: ARC.265

0967 0 Article, Exploration, Mining, Transportation, Combustion

Coal research in Canada, 1966
By Berkowitz, N. Alberta Research Council, Edmonton, Alberta
The Canadian Mining and Metallurgical Bulletin, Oct. 1967, Alberta Research Council, Edmonton, Alberta, Contribution No. 390, Oct. 1967
Report No.: ARC.390

0967 1 Article, Exploration

Coal exploration program of the Research Council of Alberta
By Campbell, J.D. Alberta Research Council, Edmonton, Alberta
The Canadian Mining and Metallurgical Bulletin, June 1967, Vol. LXX, p. 155-160, Alberta Research Council, Edmonton, Alberta, Contribution No. 361, June 1967
Report No.: ARC.361

0968 0 Article, Exploration, Mining, Transportation, Combustion

Coal research in Canada - 1967
By Berkowitz, N. Alberta Research Council, Edmonton, Alberta
The Canadian Mining and Metallurgical Bulletin, Aug. 1968, Alberta Research Council, Edmonton, Alberta, Contribution No. 415, Aug. 1968
Report No.: ARC.415

0969 0 Article, Exploration, Mining, Transportation, Combustion

Coal Research and Development in Canada - 1968
By Berkowitz, N. Alberta Research Council, Edmonton, Alberta
The Canadian Mining and Metallurgical Bulletin, Sept. 1969, Alberta Research Council, Edmonton, Alberta, Contribution No. 448, Sept. 1969
Report No.: ARC.448

0969 1 Article, Exploration, Mining, Geology

Alcoas' Victorian mine: From brown coal to power at Anglesea

Aust. Min., April 1969, Iss. 4, p. 45-47, April 1969

0970 0 Article, Exploration, Mining, Transportation, Combustion

Coal Research and Development in Canada - 1969
By Berkowitz, N. Alberta Research Council, Edmonton, Alberta
The Canadian Mining and Metallurgical Bulletin, Oct. 1970, Alberta Research Council, Edmonton, Alberta, Contribution No. 494, Oct. 1970
Report No.: ARC.494

0976 0(*) Conference proceedings, Exploration

Coal Exploration
By Muir, W.L.
Proceedings of the First International Coal Exploration Symposium, London, England, May 1976

0976 1 Article, Exploration

Coal inventory survey
By Smith, E.W. / Gillis, K.S. / Covert, T.G. / Murray, D.A.
N.S. Dept. of Mines Report, Iss. 77-1, p. 17-21, 1977

0976 2 Article, Exploration, Mining

A methodology of systematic quality assessment of coal seam under exploration
By Roychaudhuri, K.K. / Banerjee, B. / Mazumdar, B.K.
Fri. News, Vol. 26, Iss. 3-4, p. 97-108, 1976

0977 0 Book, Exploration, Geology

Bibliography and Index of Coal in Saskatchewan and Adjoining Provinces and States
By Pilon, C.A. Saskatchewan Research Council, Saskatoon, Saskatchewan
Saskatchewan Research Council, Saskatoon, Saskatchewan, Report No. 18, 1977
Report No.: SRC.18

0977 1 Abstract-single, Exploration, Geology

Seismic guided waves in coal seams
By Peterson, S.D.
Geophysics, Dec. 1977, Iss. 7, p. 1532, Dec. 1977

0977 2 Abstract-single, Exploration

Is it possible to increase the resolution in seismic exploration for coal by using high frequency signals?
By Rueter, H. / Schepers, R.
Geophysics, Dec. 1977, Iss. 7, p. 1536, Dec. 1977

0977 3 Article, Exploration

Detection of a coked coal seam using DC Resistivity
By Huber, R.D. / Koppe, W.
Queensl. Gove. Min. J., Jan. 1977, Iss. 903, p. 29-37, Jan. 1977

0978 0 Article, Exploration, Mining

Nova Scotia: Interest in uranium, base metals, industrial minerals and coal
By Gillis, W.
West Miner., Vol. 51, No. 2, Feb. 1978, p. 22-24, Feb. 1978

0978 1 Article, Exploration

In situ analysis of coal using a 252Cf Ge(Li) Borehole Sonde
By Senftle, F.E. / Tanner, A.B. / Philbin, P.W. / Boynton, G.R. / Schram, C.W.
Min. Eng. (New-York), Vol. 30, No. 6, June 1978, p. 666-674, June 1978

0978 2 Article, Exploration, Mining

Computer assisted National Coal Industry
By Irvine, J.A. / Williams, G.D.
CIM Bull., Vol. 71, No. 794, June 1978, p. 63-70, June 1978

0978 3 Article, Exploration

Application of coal petrography to exploration, preparation and sales at Pittston
By Rippe, J.J. / Verno, L.J. / Denton, G.H.
Min. Congr. J., Vol. 64, No. 8, Aug. 1978, p. 24-28, Aug. 1978

0978 4 Article, Exploration, Geology

Some practical applications of thermal infrared linescanning
By Bakker, P. / Church, D.J. / Feuchtwanger, T.F.
Min. Mag., Vol. 139, No. 4, Oct. 1978, p. 398-413, Oct. 1978

0978 5 Article, Exploration, Geology

Saskatchewan: Continuing exploration interest: Activity in Uranium, Potash, Coal

By Messer, J.R.
West. Miner., April 1978, Vol. 51, Iss. 4, p. 48-50, April 1978

0978 6 Article, Exploration

Geophysical exploration and coal
By King, D.L.
Aust Min, Vol. 70, No. 10, Oct. 1978, p. 35-36, 39, 41, Oct. 1978

0978 7 Article, Exploration, Geology, Gasification

Experimental studies on the origin and accumulation of coalbed gas
By Kim, A.G. Pittsburgh Mining and Safety Research Center, Pittsburgh, Pennsylvania
U.S. Bur. Mines, Rep. Invest., Iss. 8317, 17 p., 1978

0979 0 Article, Exploration

Nuclear activation logging for aluminum in iron ores and coal
By Eisler, P.L. / Mathew, P.J. / Youl, S.F. / Wylie, A.W.
Geoexploration, Vol. 17, No. 1, p. 43-53, 1979

0979 1 Article, Exploration

Saving money with coal geophysics
By Abshier, J.F. / McVride, G.E. / Beardsmore, S.F.
Coal Age, Vol. 84, No. 9, p. 100-110, Sept. 1979

0979 2 Article, Exploration

Coal resources and outlook
By Olds, F.C.
Power Eng. (Barrington, Ill.), Vol. 83, No. 10, p. 71-78, Oct. 1979

0979 3 Article, Exploration

Aerial photography and computergraphics speed exploration

Coal Min. Process., Vol. 16, No. 2, p. 54-56, Feb. 1979

0979 4 Article, Exploration, Mining

Simple approach to high resolution seismic profiling for coal
By Ziolkowski, A. / Lerwill, W.E. National Coal Board, London, United-Kingdom

Geophys. Prospect., Vol. 27, No. 2, p. 360-393, June 1979

0979 5 Article, Exploration

Geochemical affinities as exploration and classification tools
By Orhiem, A. Store Norske Spitzbergen Kulkompani A/S, Longyearbyen, Norway
Coal Explor., Vol. 2, p. 328-346, 1979

0979 6 Article, Exploration, Gasification, Mining

Evaluation of the methane gas content of coalbeds: Part of a complete coal exploration program for health and safety and resource evaluation
By Diamond, W.P. Pittsburgh Mining and Safety Research Center, Pittsburgh, Pennsylvania
Coal Explor., Vol. 2, p. 211-227, 1979

0979 7 Article, Exploration, Geology

Exploration techniques and the geological service within the National Coal Board
By Vernon, R.W. National Coal Board, North-Derbyshire, United-Kingdom
Colliery Guardian, Vol. 227, No. 7, p. S7-S8,S10,S13, July 1979

0979 8 Article, Exploration

Development in drilling fluids and methods for core drilling
By Steels, K. L.M. Van Moppes & Sons Diamond Tools, Ltd., Basingstoke, Hampshire, United-Kingdom
Colliery Guardian, Vol. 227, No. 2, p. 71-78, Feb. 1979

0979 9 Article, Exploration, Geology

The location of faults by underground seismology
By Buchanan, D.J.
Coll Guard Vol. 227, No. 8, p. 419-427, Aug. 1979

0979 10 Article, Exploration, Geology

Basinal analysis of the ecca and lowermost beaufort beds and associated coal, uranium and heavy mineral beach sand occurrences
By Ryan, P.J. / Whitfield, G.G. Phelps Dodge of Africa Limited, Johannesburg, South-Africa
Spec Publ Geological Soc S Africa, Vol. 6, p. 91-101, 1979

0979 11 Book, Exploration, Mining, Properties, Energy Policy

World coal resources: methods of assessment and results

By Fettweis, G.B. Montanuniversitat, Leoben, Austria
Elsevier Scientific Publishing Company, New-York, New-York, 415p., 1979

0980 0 Article, Exploration

Tridem airborne conductivity mapping as a lignite exploration method
By Pitcher, D.H. / Barlow, R.B. / Lewis, M. William Jamal and Associates Limited, Toronto, Ontario
CIM Bull., Vol. 73, No. 817, p. 53-63, May 1980

0980 1 Article, Exploration, Mining

Russia's biggest coal project gets underway in Siberia
By Vitkovsky, K.
Coal Min Process, Vol. 17, No. 9, p. 104-106, 108, Sept. 1980

0980 2 Article, Exploration

Tertiary coal resources, Eastern Arctic Archipelago
By Bustin, R.M. University of British-Columbia, Vancouver, British-Columbia
Arctic, Vol. 33, No. 1, p. 38-49, March 1980

0980 3 Article, Exploration

$20 million promised for coal exploration in Nova Scotia energy policy

Can Min J, Vol. 101, No. 4, p. 74-76, April 1980

0980 4 Book, Exploration

Coal deposits
By Tatsch, J.H.
Tatsch Associates, Sudbury, Massachusetts, 590p., 1980

0980 5 Report, Exploration, Geology

The classification of coal resources and reserves
By Van-Rensburg, W.C. University of Texas, Austin, Texas
Mineral Resource Circular, Texas, University, Bureau of Economic Geology, No. 65, 36p., 1980
Report No.: Mineral Resource Circular No. 65

0980 6 Article, Exploration

Oilfield rig equipment and technology in coal exploration

By Pidskalny, R.W.
Coll Guard, Vol. 228, No. 10, p. 9-16, Oct. 1980

0980 7 Article, Exploration, Transportation

Coal supply: new strategy for an old game
By Males, R. Electric Power Research Institute, Palo-Alto, California
EPRI Journal, October, 1980, p. 2-12, 1980

0981 0 Conference proceedings, Exploration

Coal exploration, testing, assessment and evaluation
By Dunn, R. National Coal Board, London, United-Kingdom
A Symposium on Coal - The New Energy, Edmonton, Alberta, April 7/8, 1981, 10p., 1981

0981 1 Report, Exploration

Compilation of Canadian research projects in coal exploration, mining and preparation 1981
By Chekerda, K. / Germain, R.J. / Fawcett, D. Coal Mining Research Centre, Edmonton, Alberta
Coal Mining Research Centre, 24p., June 1981
Report No.: 81/30-T

0981 2 Article, Exploration

New coal capacity surges ahead
By Nielsen, G.F.
Coal Age, Vol. 85, No. 2, p. 98-117, Feb. 1981

0981 3 Report, Exploration, Geology

Carboniferous drilling project
By Ball, F.D. / Sullivan, R.M. / Peach, A.R. Department of Natural Resources, Fredericton, New-Brunswick
Department of Natural Resources, Fredericton, New-Brunswick, p. 57-61, 1981
Report No.: RI-18

0981 4 Article, Exploration, Geology

Coal reserves are plentiful but unevenly distributed
By Jeremic, M.L.
World Coal, Vol. 7, Iss. 5, p. 42-44, Aug. 1981

0981 5 Report, Exploration, Geology, Mining

Reserves of coal - Province of Alberta
Energy Resources Conservation Board, Calgary, Alberta
Energy Resources Conservation Board, 120p., June 1981
Report No.: ERCB 82-31

0981 6 Article, Exploration

Coal prospect evaluation with a graphics oriented desktop computer system
By Rychkun, E.A. / Houlding, S.W.
Coal Miner, Vol. 6, No. 5, p. 31-34, Nov. 1981

0982 0 Article, Exploration

New Zealand report
By Scholes, W.A.
Coll Guard, Vol. 230, No. 2, p. 74-75, 1982

0982 1 Article, Exploration, Mining

Access to coal
By Bornemann, E. Thyssen (Great Britain) Ltd., Dyfed, United-Kingdom
Min Eng, Vol. 6, p. 647-653, May 1982

0982 2 Article, Exploration

Better methods aid exploration of coal sites
By Chironis, N.P.
Coal Age, Vol. 87, No. 10, p. 82-88, Oct. 1982

PROPERTIES

1049 0 Article, Properties

Graphical studies of the properties of Alberta coals
By McCulloch, A. / Sherlock, E. Alberta Research Council, Edmonton, Alberta
Fuel, Vol. XXVIII, No. 6, June 1949, p. 135-141, Alberta Research Council, Edmonton, Alberta, Contribution No. 19, June 1949
Report No.: ARC.19

1049 1 Article, Properties

Low temperature carbonization of Alberta sub bituminous coal
By Gregory, J. / McCulloch, A. Alberta Research Council, Edmonton, Alberta
Industrial and Engineering Chemistry, Vol. 41, May 1949, p. 1103-1011, Alberta Research Council, Edmonton, Alberta, Contribution No. 18, May 1949
Report No.: ARC.18

1049 2 Article, Properties

A classification of Alberta coals
By Sherlock, E.
Fuel, Vol. 28, No. 12, p. 276-281, Jan. 1949

1051 0 Report, Properties

Progress in coal technology - Carbonization
By Lang, W.A. Alberta Research Council, Edmonton, Alberta
Transactions of Canadian Institute of Mining and Metallurgy, Vol. LIV, p. 289-294, Contribution No. 25, Sept. 1951
Report No.: ARC.25

1052 0 Report, Properties

Influence of certain inorganic matter, fusian and dull coal on the free swelling index of coal
By Shotts, R.Q. University of Alabama, University, Alabama
Technical Report No. 10, Fuel, Oct. 1952, Vol. 31, No. 4, Oct. 1952

1052 1 Article, Properties

Laboratory tests of the cleaning of fine coal by a D.S.M. cyclone
By Morimoto, T.E. Alberta Research Council, Edmonton, Alberta
Transactions, Canadian Institute of Mining and Metallurgy, Vol. LV, p. 40-48, Alberta Research Council, Edmonton, Alberta, Contribution No. 28, Jan. 1952
Report No.: ARC.28

1052 2(*) Book, Properties, Geology

Second Conference on the origin and constitution of coal
Nova-Scotia Department of Mines and Energy, Halifax, Nova-Scotia, June 1952

1055 0 Article, Properties

Physicochemical studies on Alberta coals, I. Surface area measurements
By Berkowitz, N. Alberta Research Council, Edmonton, Alberta
Canadian Journal of Technology, Iss. 33, p. 169-181, Alberta Research Council, Edmonton, Alberta, Contribution No. 43, 1955
Report No.: ARC.43

1055 1 Article, Properties

Physicochemical studies on Alberta coals, II. On the physical behavior of coal in ultrasonic fields
By Berkowitz, N. Alberta Research Council, Edmonton, Alberta
Canadian Journal of Technology, Iss. 33, p. 378-387, Alberta Research Council, Edmonton, Alberta, Contribution No. 44, 1955
Report No.: ARC.44

1055 2 Book, Properties, Mining

Alberta coals: What you should know about them
Alberta Research Council, Edmonton, Alberta
Department of Economic Affairs, Industrial Development Board, Edmonton, Alberta, 1955

1055 3 Report, Properties

Summary of F.R.L. Report No. 203 entitled, size distribution of Canadian mine run and slack coals in relation to size specification
By Swartzman, E.
Canada Department of Mines and Technical Surveys, Ottawa, Ontario, June 1955
Report No.: T.M. 35/55

1056 0 Article, Properties

Pyrolysis of coal in the presence of nitric oxide
By Berkowitz, N. / Dammeyer, W. Alberta Research Council, Edmonton, Alberta
Journal of Fuel Science, Vol. XXXV, No. 1, Jan. 1956, Alberta Research Council, Edmonton, Alberta, Contribution No. 45, Jan. 1956
Report No.: ARC.45

1056 1 Report, Properties

Study of the Gieseler Plasticity Test with special reference to A seam Michel coal

By Swartzman, E. / Tibbetts, T.E.
Canada Department of Mines and Technical Surveys, Ottawa, Ontario, June 1956
Report No.: CDMT.FRL-247

1057 0 Report, Properties

Low temperature carbonization assays of North American coals
By Selvig, W.A. / Ode, W.H.
Bureau of Mines, 56p., 1957
Report No.: 571

1058 0 Report, Properties

The international systems of hard coal classification and their application to American coals
By Ode, W.H. / Frederick, W.H. United-States Government Printing Office, Washington, District-of-Columbia
United-States Bureau of Mines, Washington, D.C., 0958

1059 0 Report, Properties

Interim data on coke oven operating practice in three central Canada steel plants
By Walsh, J.H. / Botham, J.C.
Canada Department of Mines and Technical Surveys, Ottawa, Ontario, Dec. 1959
Report No.: CDMT.TM 174/59-CG

1059 1 Report, Properties

Coke for blast furnaces
By Botham, J.C. / Burrough, E.J. Canada Department of Mines and Technical Surveys, Ottawa, Ontario
Symposium on Iron and Steel in Western Canada, Edmonton, Alberta, Aug. 1959
Report No.: CDMT.79/59-CG

1059 2 Book, Properties

A laboratory study of the binderless briquetting of Western Canadian coals
By McKenzie, A.R. / Picard, J.L. / Visman, J.
Department of Mines and Technical Surveys, Ottawa, Ontario, Dec. 1959
Report No.: TB 10

1059 3 Book, Properties

Briquetting coal with binders and statistical evaluation of briquet tests
By Charbonnier, R.P. / Visman, J.
Department of Mines and Technical Surveys, Ottawa, Ontario, Oct. 1959
Report No.: TB 9

1059 4 Book, Properties

Relationship of various factors to the quality of coked briquets made from mixtures of coking coals and inert material
By Swartzman, E.
Department of Mines and Technical Surveys, Ottawa, Ontario, Sept. 1959
Report No.: TB 6

1059 5 Article, Properties

Relationship of coal ash viscosity to chemical composition
By Sage, W.L. / McIlroy, J.B. Babcock & Wilcox Company, Alliance, Ohio
ASME, 1959, 9p., 1959
Report No.: ASME paper No. 59-Fu-4

1060 0 Report, Properties

International system for classifying brown coals and lignites and its application to American coals
By Ode, W.H. / Gibson, F.H. United-States Department of the Interior, Washington, District-of-Columbia
United-States Bureau of Mines, Washington, D.C., May 1960

1061 0 Book, Properties

Alberta Subbituminous coals as drilling fluid thinners
By Jensen, E.J. Alberta Research Council, Edmonton, Alberta
Alberta Research Council, Information Series No. 33, Edmonton, Alberta, 1961
Report No.: ARC. 33

1061 1 Book, Properties

Coal: typology, chemistry, physics, constitution
By Van-Krevelen, D.W. Delft University of Technology, Delft, Netherlands
Elsevier Scientific Publishing Company, Amsterdam, New-York, 514p., 1961

1062 0 Article, Properties

Low temperature deploymerization of bituminous coal
By Heredy, L.A. / Neuworth, M.B.
Fuel, Vol. 41, p. 221-231, 1962

1063 0 Article, Properties, Transportation

Settling velocities of coal particles
By Moreland, C. Alberta Research Council, Edmonton, Alberta

Canadian Journal of Chemical Engineering, Iss. 41, p. 108-110, Alberta Research Council, Edmonton, Alberta, Contribution No. 189, June 1963
Report No.: ARC.189

1063 1 Article, Properties, Transportation

The pipeline flow of coal in oil suspensions
By Berkowitz, N. / Moreland, C. / Round, G.F. Alberta Research Council, Edmonton, Alberta
Canadian Journal of Chemical Engineering, Iss. 41, p. 116-121, June 1963, Alberta Research Council, Edmonton, Alberta, Contribution No. 191, June 1963
Report No.: ARC.191

1063 2 Article, Properties, Transportation

Viscosity of suspensions of coal in mineral oil
By Moreland, C. Alberta Research Council, Edmonton, Alberta
Canadian Journal of Chemical Engineering, Iss. 41, p. 24-28, Feb. 1963, Alberta Research Council, Edmonton, Alberta, Contribution No. 198, Feb. 1963
Report No.: ARC.198

1063 3 Report, Properties

Plastic, agglutinating, and free swelling properties of American coals
By Walters, J.G. / Ode, W.H. / Spinetti, L. Pittsburgh Coal Research Center, Pittsburgh, Pennsylvania
United-States Department of the Interior, Bureau of Mines, No. 610, 83p., 1963
Report No.: ISSN-0082-9129

1064 0 Article, Properties

The dry oxidation of sub bituminous coal
By Jensen, E.J. / Melnyk, N. / Wood, J.C. / Berkowitz, N.
Alberta Research Council, Edmonton, Alberta, Oct. 1964
Report No.: ARC.266

1064 1 Article, Properties

Mechanisms of coal pyrolysis VI - Reaction patterns in the range 650 degrees to 850 degrees C
By Neufeld, L.F. / Berkowitz, N. Alberta Research Council, Edmonton, Alberta
Journal of Fuel Science, Vol. XLIII, No. 3, May 1964, Alberta Research Council, Edmonton, Alberta, Contribution No. 248, May 1964
Report No.: ARC.248

1064 2 Article, Properties

The reaction of diazonium salts with humic acids and coals: Evidence for activated methylene bridges in coals and humic

acids
By Moschopedis, S.E. / Wood, J.C. / Fryer, J.F. / Elofson, R.M. Alberta Research Council, Edmonton, Alberta
Journal of Fuel Science, Vol. XLIII, July 1964, Alberta Research Council, Edmonton, Alberta, Contribution No. 262, July 1964
Report No.: ARC.262

1064 3 Article, Properties

Chemical identification of methylene bridges in bituminous coal
By Heredy, L.A. / Kostyo, A.E. / Neuworth, M.B.
Fuel, Vol. 44, p. 414-415, 1964

1065 0 Article, Properties

On the wetting of carbon surfaces by carbonaceous binders
By Agrawal, D.P. / Berkowitz, N. Alberta Research Council, Edmonton, Alberta
Alberta Research Council, Edmonton, Alberta, Contribution No. 318, 1965
Report No.: ARC.318

1065 1 Article, Properties, Combustion

Fusibility viscosity of lignite type ash
By Duzy, A.F. Babcock & Wilcox Company, Barberton, Ohio
ASME, Chicago, Illinois, Nov. 7/11, 1965, 8p., 1965

1066 0 Article, Properties

Mechanisms of coal pyrolysis VII - The dependence of diamagnetic properties upon the duration of heat treatment
By Brown, H.M. / Berkowitz, N. Butterworths Scientific Publications, London, United-Kingdom
Alberta Research Council, Edmonton, Alberta, Contribution No. 315, May 1966
Report No.: ARC.315

1067 0 Article, Properties

The coal carbon transformation: Basic mechanisms
By Berkowitz, N.
Alberta Research Council, Edmonton, Alberta, 1967
Report No.: ARC.365

1067 1 Report, Properties

Coal based fertilizers by oxidative ammoniation of coal
By Chakrabartty, S.K. / Wood, J.C. / Berkowitz, N. Alberta Research Council, Edmonton, Alberta
Proceedings of Bureau of Mines-University of North-Dakota Symposium, Grand-Forks, North-Dakota, Contribution Series 374, April 1967

Report No.: ARC.374

1067 2 Report, Properties

Yields and analyses of tars and light oils from carbonization of U.S. coals
By Walters, J.G. / Ortuglio, C. / Glaenzer, J. Pittsburgh Coal Research Center, Pittsburgh, Pennsylvania
United States Department of the Interior, Bulletin 643, 89p., 1967

1068 0 Article, Properties

The coal ammonia oxygen reaction: A route to coal based nitrogenous fertilizers
By Brown, H.M. / Berkowitz, N.
Alberta Research Council, Edmonton, Alberta, Contribution No. 368, 1968
Report No.: ARC.368

1068 1 Article, Properties

Mechanisms of coal pyrolysis VIII - The isothermal disengagement of carbon monoxide and methane in the range of 570 degrees C to 670 degrees C
By Mullin, W.J / Berkowitz, N.
Alberta Research Council, Edmonton, Alberta, Contribution No. 402, Jan. 1968
Report No.: ARC.402

1068 2 Article, Properties

The reactions of discharge generated hydrogen species with coals and carbons 1 - Primary reaction products and kinetics
By Sanada, Y. / Berkowitz, N.
Alberta Research Council, Edmonton, Alberta, Contribution No. 432, Dec. 1968
Report No.: ARC.432

1068 3 Article, Properties

Fertilizers from coal
By Berkowitz, N. / Wood, J.C. Alberta Research Council, Edmonton, Alberta
Alberta Research Council, Edmonton, Alberta, Contribution No. 392, 1968
Report No.: ARC.392

1068 4 Article, Properties

On the relationship between chemical structure and coking properties of coal
By Berkowitz, N. Alberta Research Council, Edmonton, Alberta
Journal of the Fuel Society of Japan, Nov. 1968, Vol. 47, No. 499, p. 801-810, Alberta Research Council Contribution Series 413, Nov. 1968
Report No.: ARC.413

1069 0 Report, Properties

Spectrochemical analyses of coal ash for trace elements
By Abernethy, R.F. / Peterson, M.J. / Gibson, F.H.
United-States Department of the Interior, Bureau of Mines, Report of Investigations 7281, 1969
Report No.: BOM.RI 7281

1069 1 Article, Properties

On the chemistry of the coal ammonia oxygen reaction
By Chakrabartty, S.K. / Berkowitz, N.
Alberta Research Council, Edmonton, Alberta, Contribution No. 417, April 1969
Report No.: ARC.417

1070 0 Article, Properties

Some spectral observation on coking lignites
By Elofson, R.M. / Schulz, K.F.
Alberta Research Council, Edmonton, Alberta, Contribution No. 391, 1970
Report No.: ARC.391

1070 1 Article, Properties

On the agrobiological activity of oxidatively ammoniated coal
By Berkowitz, N. / Chakrabartty, S.K. / Cook, F.D. / Fujikawa, J.I. Alberta Research Council, Edmonton, Alberta
Soil Science, Vol. 110, No. 3, April, 1970, p. 211-217, Alberta Research Council Contribution Series 483, April 1970
Report No.: ARC.483

1070 2 Report, Properties

Formed coking studies: Part III - Progress report on bench scale carbonizations of coal briquettes
By Davies, R.G.
Department of Energy, Mines and Resources, Ottawa, Ontario, Nov, 1970
Report No.: MREC 70/71

1070 3 Report, Properties

Formed coking studies: Part IV - Progress report on the development of a spouted sand bed carbonizer
By Davies, R.G.
Department of Energy, Mines and Resources, Ottawa, Ontario, Nov. 1970
Report No.: MREC 70/72

1070 4 French Report, Properties

Chemical analyses of the ash of Canadian coals
By Montgomery, W.J. / Skulski, J.Z. / Anderson, G.C. / Jorgensen, J.G.
Department of Energy, Mines and Resources, Mines Branch, Ottawa, Ontario, 41p., Jan. 1970
Report No.: IC 248

1071 0 Article, Properties

The deterioration of caking properties during prolonged agitation of coal in water
By Parkash, S. / Szladow, A.J. / Berkowitz, N. Alberta Research Council, Edmonton, Alberta
Alberta Research Council, Edmonton, Alberta, Contribution No. 542, 1971
Report No.: ARC.542

1071 1 Article, Properties

The application of spectroscopic techniques to the structural analysis of coal and petroleum
By Speight, J.G. Alberta Research Council, Edmonton, Alberta
Applied Spectroscopy Reviews, Vol. 5, No. 2, p. 211-264, Alberta Research Council Contribution No. 510, 1971
Report No.: ARC.510

1071 2 Article, Properties

Use of reflectance measurements on New Zealand coals
By Hodgson, W.A. / Mossman, D.J. University of Otago, Dunedin, New-Zealand
New-Zealand Journal of Geology and Geophysics, Vol. 14, No. 1, 1971, p. 208-218, 1971

1071 3 Book, Properties

Critical micelle concentrations of aqueous surfactant systems
By Mukerjee, P. / Myseis, K.J. University of Wisconsin, Madison, Wisconsin
Nat. Stand. Ref. Data Service, 220 p., Feb. 1971
Report No.: NSRDS-NBS 36

1072 0 Article, Properties

Studies on the structure of coals: Part 1. The nature of aliphatic groups
By Chakrabartty, S.K. / Kretschmer, H.O. Alberta Research Council, Edmonton, Alberta
Alberta Research Council, Edmonton, Alberta, Contribution No. 546, 1972
Report No.: ARC.546

1072 1 Article, Properties

Hypohalite oxidation of humic acids
By Chakrabartty, S.K. / Kretschmer, H.O. / Cherwonka, S. Alberta Research Council, Edmonton, Alberta
Alberta Research Council, Edmonton, Alberta, Contribution No. 613, 1972

Report No.: ARC.613

1072 2 Article, Properties

Properties of caking coals: Destruction of caking propensities by boron trifluoride
By Chakrabartty, S.K. / Berkowitz, N. Alberta Research Council, Edmonton, Alberta
Alberta Research Council, Edmonton, Alberta, Contribution No. 524, 1972
Report No.: ARC.524

1073 0 Report, Properties

Storage of coal samples
By Fryer, J.F. / Szladow, A.J. Alberta Research Council, Edmonton, Alberta
Alberta Research Council, Edmonton, Alberta, Information Series 66, Aug. 1973
Report No.: ARC.66

1073 1 Article, Properties

Prevention of spontaneous heating by low temperature immersion carbonization of coal
By Berkowitz, N. / Speight, J.G.
Alberta Research Council, Edmonton, Alberta, Contribution No. 622, Aug. 1973
Report No.: ARC.622

1073 2 Article, Properties

Reactions of coal with nitrogen/hydrogen mixtures in a discharge
By Nishida, S. / Berkowitz, N. Alberta Research Council, Edmonton, Alberta
Alberta Research Council, Edmonton, Alberta, Contribution No. 626, 1973
Report No.: ARC.626

1073 3 Article, Properties

Reactions of coal with discharge generated (excited) nitrogen species
By Nishida, S. / Berkowitz, N. Alberta Research Council, Edmonton, Alberta
Alberta Research Council, Edmonton, Alberta, Contribution No. 625, 1973
Report No.: ARC.625

1073 4 Conference proceedings, Properties

Trace elements in fuel
By Babu, S.P. American Chemical Society, Washington, District-of-Columbia
Symposium, Division of Fuel Chemistry, 166th Meeting of the American Chemical Society, Chicago, Illinois, Aug. 1973
Report No.: ACS.141

1073 5 Conference proceedings, Properties

Mineral matter and trace elements in coal
By Gluskoter, H.J. Illinois State Geological Survey, Urbana, Illinois
Symposium, Division of Fuel Chemistry, 166th Meeting of the American Chemical Society, Chicago, Illinois, p. 1-22, Aug. 1973

1073 6 Conference proceedings, Properties

Trace impurities in coal by wet chemical methods
By Pollock, E.N. Ledgemont Laboratory, Kennecott Copper Corporation, Lexington, Massachusetts
Symposium, Division of Fuel Chemistry, 166th Meeting of the American Chemical Society, Chicago, Illinois, p. 23-34, Aug. 1973

1073 7 Conference proceedings, Properties

Trace elements in coal by optical emission spectroscopy
By Dreher, G.B. / Schleicher, J.A. Illinois State Geological Survey, Urbana, Illinois
Symposium, Division of Fuel Chemistry, 166th Meeting of the American Chemical Society, Chicago, Illinois, p. 35-47, Aug. 1973

1073 8 Conference proceedings, Properties

Trace elements in coal dust by spark source mass spectrometry
By Sharkey, A.G. / Kessler, T. / Friedel, R.A. Pittsburgh Energy Research Center, Pittsburgh, Pennsylvania
Symposium, Division of Fuel Chemistry, 166th Meeting of the American Chemical Society, Chicago, Illinois, p. 48-56, Aug. 1973

1073 9 Conference proceedings, Properties

Major and minor constituents in siliceous materials by atomic absorption spectroscopy
By Muter, R.B. / Nice, L.L. Coal Research Bureau, West-Virginia University, Morgantown, West-Virginia
Symposium, Division of Fuel Chemistry, 166th Meeting of the American Chemical Society, Chicago, Illinois, p. 57-65, Aug. 1973

1073 10 Conference proceedings, Properties

X ray fluorescence analysis of whole coal
By Kuhn, J.K. / Harfst, W.F. / Shimp, N.F. Illinois State Geological Survey, Urbana, Illinois
Symposium, Division of Fuel Chemistry, 166th Meeting of the American Chemical Society, Chicago, Illinois, p. 66-73, Aug. 1973

1073 11 Conference proceedings, Properties

Trace impurities in fuels by isotope dilution mass spectrometry
By Carter, J.A. / Walker, R.L. / Sites, J.R. Oak-Ridge National Laboratory, Oak-Ridge, Tennessee
Symposium, Division of Fuel Chemistry, 166th Meeting of the American Chemical Society, Chicago, Illinois, p. 74-83, Aug. 1973

1073 12 Conference proceedings, Properties

Trace elements in coal by neutron activation analysis with radiochemical separations
By Frost, J.K. / Santoliquido, P.M. / Camp, L.R. / Ruch, R.R. Illinois State Geological Survey, Urbana, Illinois
Symposium, Division of Fuel Chemistry, 166th Meeting of the American Chemical Society, Chicago, Illinois, p. 84-97, Aug. 1973

1073 13 Conference proceedings, Properties

Trace elements by instrumental neutron activation analysis for pollution monitoring
By Sheibley, D.W. Lewis Research Center, National Aeronautics and Space Administration, Cleveland, Ohio
Symposium, Division of Fuel Chemistry, 166th Meeting of the American Chemical Society, Chicago, Illinois, p. 98-117, Aug. 1973

1073 14 Conference proceedings, Properties

Major, minor, and trace element composition of coal and fly ash, as determined by instrumental neutron activation analysis
By Abel, K.H. / Rancitelli, L.A. Battelle Memorial Institute, Richland, Washington
Symposium, Division of Fuel Chemistry, 166th Meeting of the American Chemical Society, Chicago, Illinois, p. 118-138, Aug. 1973

1073 15 Conference proceedings, Properties

The fate of some trace elements during coal pretreatment and combustion
By Schultz, H. / Hattman, E.A. / Booher, W.B. United-States Department of the Interior, Pittsburgh, Pennsylvania
Symposium, Division of Fuel Chemistry, 166th Meeting of the American Chemical Society, Chicago, Illinois, p. 139-153, Aug. 1973

1073 16 Conference proceedings, Properties

Total mercury mass balance at a coal fired power plant
By Kalb, G.W. TraDet Laboratories, Columbus, Ohio
Symposium, Division of Fuel Chemistry, 166th Meeting of the American Chemical Society, Chicago, Illinois, p. 154-174, Aug. 1973

1073 17 Conference proceedings, Properties

Trace element mass balance around a coal fired steam plant
By Bolton, N.E. / Carter, J.A. / Emery, J.F. / Feldman, C. / Fulkerson, W. / Hulett, L.D. / Lyon, W.S. Oak-Ridge National Laboratory, Oak-Ridge, Tennessee

Symposium, Division of Fuel Chemistry, 166th Meeting of the American Chemical Society, Chicago, Illinois, p. 175-187, Aug. 1973

1073 18 Conference proceedings, Properties

Major, minor, and trace elements in the liquid product and solid residue from catalytic hydrogenation of coals
By Given, P.H. / Miller, R.N. / Suhr, N. / Spackman, W. Pennsylvania State University, University-Park, Pennsylvania
Symposium, Division of Fuel Chemistry, 166th Meeting of the American Chemical Society, Chicago, Illinois, p. 188-191, Aug. 1973

1073 19 Conference proceedings, Properties

Trace element emissions: Aspects of environmental toxicology
By Piperno, E. McNeil Laboratories, Inc., Fort-Washington, Pennsylvania
Symposium, Division of Fuel Chemistry, 166th Meeting of the American Chemical Society, Chicago, Illinois, p. 192-209, Aug. 1973

1074 0 Report, Properties

Microwave measurement of coal layer thickness
By Ellerbruch, D.A. / Adams, J.W. National Bureau of Standards, Washington, District-of-Columbia
United-States Bureau of Mines, Pittsburgh Mining and Safety Research Center, Pittsburgh, Pennsylvania, Sept. 1974
Report No.: NTIS.COM-74-11643

1074 1 Report, Properties

Coal fracture measurements using in situ electrical methods: Preliminary results
By Lytle, R.J. / Laine, E.F. / Lager, D.L. Lawrence Livermore Laboratory, University of California, Livermore, California
United-States Atomic Energy Commission, Nov. 1974
Report No.: NTIS.UCID-16639

1074 2 Article, Properties

Air water relative permeability studies of Pittsburgh and Pocahontas coals
By Reznik, A.A. / Dabbous, M.K. / Fulton, P.F. / Taber, J.J. University of Pittsburgh, Pittsburgh, Pennsylvania
Society of Petroleum Engineers Journal, Dec. 1974, p. 566-572, Dec. 1974

1074 3 Article, Properties

Studies on the structure of coals. 3. Some inferences about skeletal structures
By Chakrabartty, S.K. / Berkowitz, N. Alberta Research Council, Edmonton, Alberta
Alberta Research Council, Edmonton, Alberta, Contribution No. 686, 1974
Report No.: ARC.686

1074 4 Article, Properties

Studies on the structure of coals: Part 2. The valence state of carbon in coal
By Chakrabartty, S.K. / Kretschmer, H.O. Alberta Research Council, Edmonton, Alberta
Alberta Research Council, Edmonton, Alberta, Contribution No. 653, 1974
Report No.: ARC.653

1074 5 Article, Properties

Behaviour differences between Carboniferous and Cretaceous bituminous coals of similar rank
By Berkowitz, N. / Fryer, J.F. / Ignasiak, B.S. / Szladow, A.J. Alberta Research Council, Edmonton, Alberta
Fuel, April 1974, Vol. 53, p. 141, Alberta Research Council Contribution No. 679, April 1974
Report No.: ARC.679

1074 6 Book, Properties

Interpreting coal properties for utilization in commercial cokemaking
By Paulencu, H.N. / Readyhough, P.J. Stelco, Burlington, Ontario
Symposium on Coal Evaluation, Oct. 1974

1074 7 Article, Properties

Assessment of Mont Joli coal
By Montgomery, W.J. Canada Centre for Mineral and Energy Technology, Ottawa, Ontario
Energy, Mines and Resources, Ottawa, Ontario, Aug. 1979
Report No.: ERP/ERL 79-41 (TR)

1074 8 Article, Properties, Combustion

Spectroscopic studies on chemically reacted (oxidized) coals
By Albers, G. / Lenart, L. / Oelert, H.
Fuel, Vol. 53, No. 1, p. 47-53, Jan. 1974

1075 0 Book, Properties

Chemical and mineralogical characterization of core samples from underground coal gasification sites in Wyoming and West Virginia
By Estep-Barnes, P.A. / Kovach, J.J. Morgantown Energy Research Center, Morgantown, West-Virginia
United-States Energy Research and Development Administration, Office of Public Affairs, Technical Information Center, Dec. 1975
Report No.: NTIS.MERC/RI-75/2

1075 1 Article, Properties

Characterization of coal by complexation with iodine
By Aronson, S. / Schwebel, A.
Ext. Abstr. Program - Bienn. Conf. Carbon, Vol. 12, p. 61-3, 1975

1075 2 Article, Properties

Conversion of complex aromatic structures to alkylbenzenes
By Qader, S.A. / McOmber, D.B.
American Chemical Society, Washington, D.C., ACS Symposium Series No. 20, 1975
Report No.: ACS.20

1075 3 Article, Properties

Electrostatic separation of particles below 40 MU.M. in a dilute phase continuous loop
By Inculet, I.I. / Bergougnou, M.A. / Brown, J.D.
Conf. Rec. - IAS Annu. Meet., p. 778-782, 1975

1075 4 Article, Properties

Advances in coal analysis
By Ignasiak, B.S. / Ignasiak, T.M. / Berkowitz, N. Alberta Research Council, Edmonton, Alberta
Reviews in Analytical Chemistry, Vol. II, No. 3, Alberta Research Council Contribution Series 641, 1975
Report No.: ARC.641

1075 5 Report, Properties, Environment

Physical property data on fine coal refuse
By Busch, R.A. / Backer, R.R. / Atkins, L.A. / Kealy, C.D.
United-States Bur. Mines, Rep. Invest., Iss. 8062, 1975
Report No.: BOM.RI 8062

1075 6 Patent, Properties

Process for production of hydrocarbonaceous fluids from solids such as coal and oil shale
By Gwyn, J.E. / Roberts, S.C.
Assignees: Shell Oil Company, 4110193, Aug. 1978, Patent: United-States, Appl. 593403, July 1975
Report No.: P.4110193

1076 0 Book, Properties

Moisture in coal and significance of accurate determination of oxygen
By Volborth, A. North-Dakota State University, Fargo, North-Dakota
United-States Energy Research and Development Administration, Report III, July 1976
Report No.: NTIS.COO-2898-4

1076 1 Book, Properties

Sulfur reduction potential of the coals of the United States
By Cavallaro, J.A. / Johnston, M.T. / Deurbrouck, A.W.
United-States Department of the Interior, Bureau of Mines, Report of Investigations 8118, 1976
Report No.: NTIS.PB-252 965

1076 2 Report, Properties, Combustion

Thermodynamic properties of some negative ions and gaseous K compounds from the combustion of coal impurities
By Miller, W.J.
Eng. Aspects Magnetohydrodyn., Vol. 15, p. IX.8, 6 pages, 1976

1076 3 Report, Properties, Gasification, Liquefaction

Coal derived petrochemicals
By White, P.C. National Petroleum Refiners Association, Washington, District-of-Columbia
Presented at the First International Petrochemical Conference, San-Antonio, Texas, Iss. IPC-76-42, April 1976
Report No.: NPRA.IPC-76-42

1076 4 Article, Properties

Determination of the ash content in coal samples from Charqueadas, Rio Grande Do Sul, by backscattering of beta particles
By Fraga, E.R. / Schifino, J.
Rev. Bras. Tecnol., Vol. 7, Iss. 4, p. 375-80, 1978

1076 5 Article, Properties

Electrostatic separation of coal macerals
By Anderson, J.M. / Parobek, L. / Bergougnou, M.A.
Conf. Rec. - IAS Annu. Meet. (IEEE), p. 167-169, 1976

1076 6 Article, Properties

Effects of boron trifluoride sorption on the caking properties of coal
By Chakrabartty, S.K. / Parkash, S. / Berkowitz, N. Alberta Research Council, Edmonton, Alberta
Alberta Research Council, Edmonton, Alberta, Contribution No. 781, 1976
Report No.: ARC.781

1076 7 Article, Properties

Coal analysis from well logs

By Kowalski, J.J. / Holter, M.E. Alberta Research Council, Edmonton, Alberta
Alberta Research Council, Edmonton, Alberta, Contribution No. 776, 1976
Report No.: ARC.776

1076 8 Article, Properties

Crystallization and vaporization studies on synthetic coal slag compositions
By Cook, L.P. / Plante, E.R. / Negas, T. / Roth, R.S. / Olson, C.D.
Eng. Aspects Magnetohydrodyn., Vol. 15, 1976

1076 9 Article, Properties

Use of peat and coal for recovering zirconium from solution
By Parkash, S. / Brown, R.A.S. Alberta Research Council, Edmonton, Alberta
Canadian Mining and Metallurgical Bulletin, July 1976, Alberta Research Council, Edmonton, Alberta, Contribution No. 777, July 1976
Report No.: ARC.777

1076 10 Article, Properties

Production of coke from blends containing weakly caking or non caking coals
By Carson, D. / Ignasiak, B.S. / Berkowitz, N. Alberta Research Council, Edmonton, Alberta
Canadian Mining and Metallurgical Bulletin, Dec. 1976, Alberta Research Council, Edmonton, Alberta, Contribution No. 762, Dec. 1976
Report No.: ARC.762

1076 11 Article, Properties

Coal chemistry: Aspects of analysis, structure, reactions, conversion, and byproducts
By Manahan, S.E. University of Missouri-Columbia, Columbia, Missouri
Proceedings of the Third Annual UMR-MEC Conference on Energy, Vol. 3, Rolla, Missouri, Oct. 1976

1076 12 Article, Properties

Coal composition and its influence on cokemaking
By Thompson, R.R. / Benedict, L.G. Bethlehem Steel Corporation, Bethlehem, Pennsylvania
ISM, Vol. 3, Iss. 2, p. 21-31, 1976

1076 13 Article, Properties

Non aromatic skeletal structures in coal
By Chakrabartty, S.K. / Berkowitz, N. Alberta Research Council, Edmonton, Alberta
Fuel, Oct. 1976, Vol. 55, p. 362-363, Alberta Research Council Contribution Series 783, Oct. 1976
Report No.: ARC.783

1076 14 Article, Properties

Gieseler fluidities and contents of reactive oxygen groups in caking coals
By Szladow, A.J. / Ignasiak, B.S. Alberta Research Council, Edmonton, Alberta
Fuel, July 1976, Vol. 55, p. 253, Alberta Research Council Contribution Series 773, July 1976
Report No.: ARC.773

1076 15 Book, Properties, Environment, Combustion

Coal processing, production, and properties. A bibliography, citations

United-States Energy Research and Development Administration, Sept. 1976
Report No.: NTIS.TID-3349-S1P1

1076 16 Book, Properties, Environment, Combustion

Coal processing, production, and properties. A bibliography, indexes

United-States Energy Research and Development Administration, Sept. 1976
Report No.: NTIS.TID-3349-S1P2

1076 17 Patent, Properties, Environment

Modular system for reducing sulfur dioxide
By Gutterman, C. / Steiner, P.
Assignees: Foster Wheeler Energy Corporation, June 1978, C01B17/04, Patent: United-States, 4095953, Jan. 1976, Appl. 648701, Jan. 1976
Report No.: P.4095953

1076 18 Report, Properties

Oxygen in the U.S. Bureau of Mines' coal ash, U.S. Bureau of Standards' coal fly ash reference material and low temperature coal ash. A simplified approach to the analysis of ash and mineral matter in coal
By Volborth, A. North-Dakota State University, Fargo, North-Dakota
Energy Research and Development Administration, Washington, D.C., Aug. 1976
Report No.: NTIS.COO-2898-7

1076 19 Book, Properties, Gasification

Hot low Btu producer gas desulfurization in fixed bed of iron oxide fly ash. Annual report No. 1, July 1975 - June 1976
By Leuenberger, E.L. Air Products and Chemicals, Inc., Marcus-Hook, Pennsylvania
Energy Research and Development Administration, Washington, D.C., Oct. 1977
Report No.: NTIS.FE-2033-17

1076 20 Book, Properties, Gasification

Hot low Btu producer gas desulfurization in fixed bed of iron oxide fly ash. Final report, Preparation and Properties of H/12/S Absorbents
By Jenkins, R.J. Air Products and Chemicals, Inc., Marcus-Hook, Pennsylvania
Energy Research and Development Administration, Washington, D.C., July 1976
Report No.: NTIS.FE-2033-14

1076 21 Book, Properties, Gasification, Liquefaction

Carcinogens relating to coal conversion processes
TRW Systems and Energy, Washington, District-of-Columbia
Energy Research and Development Administration, Washington, D.C., June 1976
Report No.: NTIS.FE-2213-1

1076 22 Book, Properties, Gasification

Membrane applications to coal conversion processes, Final report, June 1975 - Sept. 1976
By Schell, W.J. / Lawrence, R.W. / King, W.M. Envirogenics Systems Company, El-Monte, California
United-States Department of Energy, Washington, D.C., Oct. 1976
Report No.: NTIS.FE-2000-4

1076 23 Patent, Properties

Conversion of carbonaceous material
By Schulz, J.G. / Sabourin, E.T.
Assignees: Gulf Research and Development Company, Jan. 1979, Cont.-in-part of U.S. 4052448, Patent: United-States, 4137418, June 1976, Appl. 696752, June 1976
Report No.: P.4137418

1076 24 Patent, Properties

Process for grinding coal or ores in a liquid medium
By Manfroy, W. / Klimpel, R.R.
Assignees: Dow Chemical Company, 4126278, Nov. 1978, Patent: United-States, Appl. 687797, May 1976
Report No.: P.4126278

1076 25 Patent, Properties, Liquefaction

Staged hydroconversion of an oil coal mixture
By Aldridge, C.L. / Bearden, R.
Assignees: Exxon Research and Engineering Company, 4111787, Sept. 1978, Patent: United-States, Appl. 702271, July 1976
Report No.: P.4111787

1076 26 Patent, Properties, Environment

Coating coal with wetting agent followed by treatment with coal for emulsion
By Shaw, A.J. / Levelton, B.H. Kaiser Resources Limited, Sparwood, British-Columbia
Assignees: Kaiser Resources Limited, Sparwood, British-Columbia, C10L5/00, Sept. 1979, Patent: Canadian, Appl. 1062967, Nov. 1976
Report No.: P.1062967

1076 27 Book, Properties

Coal blending in Illinois
By Wilkey, M.L. / Macal, C.M. Argonne National Laboratory, Argonne, Illinois
Illinois Institute for Environmental Quality, Chicago, Illinois, 98p., March 1976
Report No.: NTIS.ANL/ES-48

1076 28 Book, Properties

Chemical analyses of selected Missouri coals and some statistical implications
By Wege, W.K. / Bhatia, D.M. / Rueff, A.W. Missouri Department of Natural Resources, Rolla, Missouri
Missouri Department of Natural Resources, Rolla, Missouri, 36p., Nov. 1976
Report No.: NTIS.PB-268-086

1076 29 Book, Properties, Gasification

Computer program for calculation of complex chemical equilibrium compositions, rocket performance, incident and reflected shocks, and Chapman - Jouguet Detonations (Report only)
By Gordon, S. / McBride, B.J. Lewis Research Center, National Aeronautics and Space Administration, Cleveland, Ohio
NASA, Washington, D.C. 241 p., 1976
Report No.: NASA SP-273

1076 30 Article, Properties, Mining

Effect of sampling method on the results of chemical analysis of overburden samples
By Power, J.F. / Sandoval, F.M.
Min Congress J, April 1976, 6p., 1976

1076 31 Article, Properties, Combustion

Empirical correlation of coal ash viscosity with ash chemical composition
By Barrick, S.M. / Moore, G.F. Babcock & Wilcox Company, Alliance, Ohio
ASME, New-York, New-York, Dec. 1976, 9p., 1976

1076 32 Report, Properties, Gasification, Liquefaction

Characteristics of American coals in relation to their conversion into clear energy fuels

By Spackman, W. / Davis, A. / Walker, P.L. / Lovell, H.L. / Essenhigh, R.H. / Vastola, F.J. / Given, P.H. Pennsylvania State University, University-Park, Pennsylvania
NTIS, United-States Department of Commerce, 185p., May 1976
Report No.: FE-2030-3

1076 33 Report, Properties, Geology

Material balance in coal 1. Material balance and oxygen stoichiometry of six coals from the Wyodak bed, Campbell County, Wyoming
By Volborth, A. / Miller, G.E. / Garner, C.K. / Jerabek, P.A. North-Dakota State University, Fargo, North-Dakota
United-States Energy Research and Development Administration, 19p., Aug. 1976
Report No.: COO-2898-8

1076 34 Article, Properties

An investigation of the nature of the organomineral compounds in brown coals
By Larina, N.K. / Miesserova, O.K. / Smutkina, Z.S. / Kovalenko, G.S.
Solid Fuel Chem, Vol. 10, No. 3, p. 35-40, 1976

1077 0 Article, Properties

Primary coal, analytical needs
By Hook, W.
Pure Appl. Chem., Vol. 49, Iss. 10, p. 1465-73, 1977

1077 1 Book, Properties

Preliminary evaluation of sulfur variability in low sulfur coals from selected mines
By Nelson, A.C. PEDCo Environmental, Inc., Cincinnati, Ohio
United-States Environmental Protection Agency, Research Triangle Park, North-Carolina, July 1977
Report No.: NTIS.PB-275 000

1077 2 Article, Properties

Moessbauer spectroscopy of iron compounds found in West Virginia coals
By Montano, P.A.
Fuel, Vol. 56, No. 4, Oct. 1977, p. 397-400, Oct. 1977

1077 3 Article, Properties

Effect of cleavage of ether linkages on physicochemical properties of coals
By Wachowska, H. / Pawlak, W.
Fuel, Vol. 56, No. 4, Oct. 1977, p. 422-426, Oct. 1977

1077 4 Article, Properties

New method for sulfur concentration measurements in coal and char
By Solomon, P.R. / Manzione, A.V.
Fuel, Vol. 56, No. 4, Oct. 1977, p. 393-396, Oct. 1977

1077 5 Article, Properties

Prospects for carbon 13 nuclear magnetic resonance analysis of solid fossil fuel materials
By Bartuska, V.J. / Maciel, G.E. / Schaefer, J. / Stejska, O.
Fuel, Vol. 56, No. 4, Oct. 1977, p. 354-358, Oct. 1977

1077 6 Article, Properties, Mining

Strength characteristics of United States coals
By Atkinson, R.H. Colorado School of Mines, Golden, Colorado
18th United-States Symposium on Rock-mechanics, Keystone, Colorado, June 1977

1077 7 Article, Properties

Coal - Its formation and composition
By Pareek, H.S.
Indian Miner., Vol. 31, No. 1, Jan.-March 1977, p. 6-19, March 1977

1077 8 German Article, Properties

Blending and stockpiling of raw coal - the Lohberg system
By Hennig, H. / Ehler, S.
Aufbereit Tech., Vol. 18, No. 11, Nov. 1977, p. 575-591, Nov. 1977

1077 9 Article, Properties

Trace elements in coal
By Swaine, D.J.
Trace Subst. Environ. Health, Vol. 11, p. 107-16, 1977

1077 10 Article, Properties

Hydrogen in Coal: The feasibility of determination by neutron methods
By Morstin, K. / Wozniak, J.
Nucl. Tech. Miner. Resour., Proc. Int. Symp., p. 119-33, 1977

1077 11 Book, Properties, Gasification

Solubilities and dew point temperatures in hydrocarbon and coal processing
By Kaul, B.K.
University of California, Berkeley, Engineering, chemical, 1977
Report No.: UMI.77-31,419

1077 12 Book, Properties

Trace element measurements at the coal fired steam plant
By Lyon, W.S.
Analytical Chemistry Division, Oak-Ridge National Laboratory, Oak-Ridge, Tennessee, 1977

1077 13 Book, Properties, Liquefaction

The conversion of model coal liquids compounds to naphtha species
By Haynes, H.W. University of Mississippi, University, Mississippi
Research Applied to National Needs (RANN), Washington, D.C., May 1977
Report No.: NTIS.PB-275 891

1077 14 Article, Properties

NMR study of the adsorption of water by coal
By Alekseev, A.D. / Krivitskaya, R.M. / Pestryakov, B.V.
Solid Fuel Chem., Vol. 11, No. 2, p. 85-87, 1977

1077 15 Article, Properties

Investigation of coals and the solid residues of their thermal treatment by IR spectroscopy
By Kekin, N.A. / Gamazina, G.A.
Solid Fuel Chem., Vol. 11, No. 2, p. 8-13, 1977

1077 16 Report, Properties, Gasification

Study of coal reactivities, Annual Report, June 1976 - May 1977
By Angus, J.C. / Gardner, N.C. / Leto, J.J. / Williams, R.J. / Shine, S.M. / Tien, C.K. Case Western Reserve University, Cleveland, Ohio
United-States Department of Energy, Oct. 1977
Report No.: NTIS.FE-2386-4

1077 17 Conference proceedings, Properties

UMR DNR Conference on Energy, Theme: Energy Crisis - Where Do We go from Here?
By Morgan, J.D. University of Missouri-Rolla, Rolla, Missouri
Proceedings of the Fourth Annual UMR-DNR Conference on Energy, Volume 4, Oct. 1977

1077 18 Conference proceedings, Properties

Control of trace elements during the increasing development of coal for energy
By Wixson, B.G. / Bolter, E. University of Missouri-Rolla, Rolla, Missouri
Proceedings of the Fourth Annual UMR-DNR Conference on Energy, University of Missouri-Rolla, Missouri Department of Natural Resources, Oct. 1977

1077 19 Conference proceedings, Properties

Comparison of nuclear and coal power plants using net energy analysis
By Tsoulfanidis, N. / Suwal, G. University of Missouri-Rolla, Rolla, Missouri
Proceedings of the Fourth Annual UMR-DNR Conference on Energy, University of Missouri-Rolla, Missouri Department of Natural Resources, Oct. 1977

1077 20 Book, Properties

Investigation of the analytical capability of proton induced x ray emission applied to the analysis of coal and surface water
By Laumer, S.C.
University of Kentucky, Chemistry, analytical, 1977
Report No.: UMI.78-2449

1077 21 Book, Properties

A study of the volatility of minor and trace elements in Illinois coal
By Lee, S.H. / Johnson, I. / Fischer, J. Argonne National Laboratory, Argonne, Illinois
United-States Energy Research and Development Administration, Aug. 1977
Report No.: NTIS.ANL/CEN/FE-77-4

1077 22 Book, Properties

Hot briquetting study using Western Canadian coal samples
By Leeder, W.R. / Malette, M.J.
Energy, Mines and Resources Canada, Canada Centre for Mineral and Energy Technology, CANMET Report 77-33, Dec. 1977
Report No.: CANM.77-33

1077 23 Report, Properties

Coal microstructure and the significance of pyrite inclusions
By Greer, R.T. Iowa State University, Ames, Iowa
Scanning Electron Microscopy, 1977, Vol. 1, Proceedings of the Workshop on Materials and component characterization/quality control with the SEM/STEM IIT Research Institute, Chicago, Illinois, April 1977
Report No.: NTIS.CONF-770333-5

1077 24 Article, Properties

Optical character of thermally metamorphosed coals of Northern England
By Jones, J.M. / Creaney, S.
J. Microsc. (Oxford), Jan. 1977, Vol. 109, Iss. 1, p. 105-18, Jan. 1977

1077 25 Article, Properties, Exploration

Application of fluorescence microscopy in coal petrology and oil exploration
By Teichmueller, M. / Wolf, M.
J. Microsc. (Oxford), Jan. 1977, Vol. 109, Iss. 1, p. 49-73, Jan. 1977

1077 27 Article, Properties

Prediction methods in coal and coke microscopy
By Mackowsky, M.T.
J. Microsc. (Oxford), Jan. 1977, Vol. 109, Iss. 1, p. 119-36, Jan. 1977

1077 28 Article, Properties

The expression of results of coal analysis: the case for brown coals
By Kiss, L.T. / King, T.N.
Fuel, Vol. 56, July 1977, p. 340-341, July 1977

1077 29 Book, Properties

Interaction of a sub bituminous coal with a strong acid and a strong base
By Seth, M. / Vermeulen, T.
Energy and Environment Division and Department of Chemical Engineering, University of California, Berkeley, California, Nov. 1977
Report No.: UOC.LBL-5997

1077 30 Conference proceedings, Properties

Coal extrusion in the plastic state
By England, C. / Ryason, P.R. California Institute of Technology, Pasadena, California
United-States Energy Research and Development Administration, Proceedings: Conference on Coal Feeding Systems, Pasadena, California, p. 451-465, June 1977
Report No.: NTIS.N78-13241-13270

1077 31 Book, Properties, Liquefaction

Interaction of organic solvents with sub bituminous coal below pyrolysis temperature

By Dorighi, G.P. University of California, Berkeley, California
United-States Department of Energy, Washington, D.C., 1977
Report No.: UOC.LBL-6335

1077 32 Patent, Properties

Catalytic formation of hydrocarbons from carbon monoxide, hydrogen gas mixtures and process for maintaining catalytic activity
By Vannice, M.A. / Garten, R.L.
Assignees: Exxon Research and Engineering Co., June 1978, Patent: United-States, 4093643, Feb. 1977, Appl. 769574, Feb. 1977

1077 33 Book, Properties

Catalytic properties of mineral matter in coal
By Johannes, A.H.
Thesis, University of Kentucky, Doctor of Philosophy, 1977
Report No.: UMI.7815746

1077 34 Conference proceedings, Properties

Organic chemistry of coal
By Larsen, J.W. American Chemical Society, Washington, District-of-Columbia
Symposium, Division of Fuel Chemistry, 174th Meeting of the American Chemical Society, Chicago, Illinois, Sept. 1977
Report No.: ACS.71

1077 35 Conference proceedings, Properties

A primer on the chemistry and constitution of coal
By Whitehurst, D.D. Mobil Research and Development Corporation, Princeton, New-Jersey
Symposium, Division of Fuel Chemistry, 174th Meeting of the American Chemical Society, Chicago, Illinois, p. 1-35, Sept. 1977
Report No.: ACS.71

1077 36 Conference proceedings, Properties

Polymer structure of bituminous coals
By Larsen, J.W. / Kovac, J. University of Tennessee, Knoxville, Tennessee
Symposium, Division of Fuel Chemistry, 174th Meeting of the American Chemical Society, Chicago, Illinois, p. 36-49, Sept. 1977
Report No.: ACS.71

1077 37 Conference proceedings, Properties

Oxygen and oxygen functionalities in coal and coal liquids

By Ruberto, R.G. / Cronauer, D.C. Gulf Research and Development Company, Pittsburgh, Pennsylvania
Symposium, Division of Fuel Chemistry, 174th Meeting of the American Chemical Society, Chicago, Illinois, p. 50-70, Sept. 1977
Report No.: ACS.71

1077 38 Conference proceedings, Properties

Asphaltenes and preasphaltenes - components of an original hvb bituminous coal
By Marzec, A. / Bodzek, D. / Krzyzanowska, T. Polish Academy of Sciences, Warsaw, Poland
Symposium, Division of Fuel Chemistry, 174th Meeting of the American Chemical Society, Chicago, Illinois, p. 71-85, Sept. 1977
Report No.: ACS.71

1077 39 Conference proceedings, Properties

Phenols as chemical fossils in coals
By Bimer, J. / Given, P.H. / Raj, S. Polish Academy of Sciences, Warsaw, Poland
Symposium, Division of Fuel Chemistry, 174th Meeting of the American Chemical Society, Chicago, Illinois, p. 86-99, Sept. 1977
Report No.: ACS.71

1077 40 Conference proceedings, Properties, Liquefaction

Oxidative degradation studies of coal and solvent refined coal
By Hayatsu, R. / Winans, R.E. / Scott, R.G. / Moore, L.P. / Studier, M.H. Argonne National Laboratory, Argonne, Illinois
Symposium, Division of Fuel Chemistry, 174th Meeting of the American Chemical Society, Chicago, Illinois, p. 108-125, Sept. 1977
Report No.: ACS.71

1077 41 Conference proceedings, Properties, Liquefaction

Chemistry of coal liquefaction
By Mayo, F.R. / Huntington, J.G. / Kirshen, N.A. SRI International, Menlo-Park, California
Symposium, Division of Fuel Chemistry, 174th Meeting of the American Chemical Society, Chicago, Illinois, p. 126-130, Sept. 1977
Report No.: ACS.71

1077 42 Conference proceedings, Properties

Early stages of coal carbonization: Evidence for isomerization reactions
By Chakrabartty, S.K. / Berkowitz, N. Alberta Research Council, Edmonton, Alberta
Symposium, Division of Fuel Chemistry, 174th Meeting of the American Chemical Society, Chicago, Illinois, p. 131-141, Sept. 1977
Report No.: ACS.71

1077 43 Conference proceedings, Properties

Electron spin resonance studies of coals and coal derived asphaltenes
By Retcofsky, H.L. / Thompson, G.P. / Hough, M.R. / Friedel, R.A. Pittsburgh Energy Research Center, Pittsburgh, Pennsylvania
Symposium, Division of Fuel Chemistry, 174th Meeting of the American Chemical Society, Chicago, Illinois, p. 142-155, Sept. 1977
Report No.: ACS.71

1077 44 Conference proceedings, Properties

Photochemistry hydrogen atoms as a structural probe of the surface of coal
By Mains, G.J. / Sundaram, S.P. / Solomon, J. Oklahoma State University, Stillwater, Oklahoma
Symposium, Division of Fuel Chemistry, 174th Meeting of the American Chemical Society, Chicago, Illinois, p. 156-164, Sept. 1977
Report No.: ACS.71

1077 45 Conference proceedings, Properties

Isotopic studies of thermally induced reactions of coal and coal like structures
By Collins, C.J. / Benjamin, B.M. / Raaen, V.F. / Maupin, P.H. / Roark, W.H. Oak-Ridge National Laboratory, Oak-Ridge, Tennessee
Symposium, Division of Fuel Chemistry, 174th Meeting of the American Chemical Society, Chicago, Illinois, p. 165-170, Sept. 1977
Report No.: ACS.71

1077 46 Conference proceedings, Properties

Supercritical solvents and the dissolution of coal and lignite
By Blessing, J.E. / Ross, D.S. SRI International, Menlo-Park, California
Symposium, Division of Fuel Chemistry, 174th Meeting of the American Chemical Society, Chicago, Illinois, p. 171-185, Sept. 1977
Report No.: ACS.71

1077 47 Conference proceedings, Properties, Liquefaction

Homogeneous catalytic hydrogenations of complex carbonaceous substrates
By Cox, J.L. / Wilcox, W.A. / Roberts, G.L. Battelle Memorial Institute, Richland, Washington
Symposium, Division of Fuel Chemistry, 174th Meeting of the American Chemical Society, Chicago, Illinois, p. 186-203, Sept. 1977
Report No.: ACS.71

1077 48 Conference proceedings, Properties

Hydrotreatment of coal with aluminum trichloride/hydrochloric acid and other strong acid media
By Low, J.Y. / Ross, D.S. SRI International, Menlo-Park, California

Symposium, Division of Fuel Chemistry, 174th Meeting of the American Chemical Society, Chicago, Illinois, p. 204-214, Sept. 1977
Report No.: ACS.71

1077 49 Conference proceedings, Properties

Characterization of coal products by mass spectrometry
By Lumpkin, H.E. / Aczel, T. Exxon Research and Engineering Company, Baytown, Texas
Symposium, Division of Fuel Chemistry, 174th Meeting of the American Chemical Society, Chicago, Illinois, p. 215-222, Sept. 1977
Report No.: ACS.71

1077 50 Conference proceedings, Properties

Field ionization and field desorption mass spectrometry applied to coal research
By John, G.A. / Buttrill, S.E. / Anbar, M. Stanford Research Institute, Menlo-Park, California
Symposium, Division of Fuel Chemistry, 174th Meeting of the American Chemical Society, Chicago, Illinois, p. 223-239, Sept. 1977
Report No.: ACS.71

1077 51 Conference proceedings, Properties, Liquefaction

Heteroatom species in coal liquefaction products
By Schweighardt, F.K. / White, C.M. / Friedman, S. / Shultz, J.L. Pittsburgh Energy Research Center, Pittsburgh, Pennsylvania
Symposium, Division of Fuel Chemistry, 174th Meeting of the American Chemical Society, Chicago, Illinois, p. 240-257, Sept. 1977
Report No.: ACS.71

1077 52 Conference proceedings, Properties

Characterization of liquids and gases obtained by hydrogenating lumps of Texas lignite
By Philip, C.V. / Anthony, R.G. Texas A&M University, College-Station, Texas
Symposium, Division of Fuel Chemistry, 174th Meeting of the American Chemical Society, Chicago, Illinois, p. 258-273, Sept. 1977
Report No.: ACS.71

1077 53 Conference proceedings, Properties, Liquefaction

Preparative GPC study of solvent refined coal and its acid neutral base components
By Welsh, D.J. / Hellgeth, J.W. / Glass, T.E. / Dorn, H.C. / Taylor, L.T. Virginia Polytechnic Institute and State University, Blacksburg, Virginia
Symposium, Division of Fuel Chemistry, 174th Meeting of the American Chemical Society, Chicago, Illinois, p. 274-293, Sept. 1977
Report No.: ACS.71

1077 54 Conference proceedings, Properties, Liquefaction

Comparison of solvent refined lignites with solvent refined bituminous coals
By Baltisberger, R.J. / Klabunde, K.J. / Stenberg, V.I. / Woolsey, N.F. / Saito, K. / Sukalski, W. University of North-Dakota, Grand-Forks, North-Dakota
Symposium, Division of Fuel Chemistry, 174th Meeting of the American Chemical Society, Chicago, Illinois, p. 294-300, Sept. 1977
Report No.: ACS.71

1077 55 Conference proceedings, Properties, Liquefaction

Temperature effects on coal liquefaction: Rates of depolymerization and product quality as determined by gel permeation chromatography
By Knudson, C.L. / Schiller, J.E. / Ruud, A.L. Grand-Forks Energy Technology Center, Grand-Forks, North-Dakota
Symposium, Division of Fuel Chemistry, 174th Meeting of the American Chemical Society, Chicago, Illinois, p. 301-316, Sept. 1977
Report No.: ACS.71

1077 56 Article, Properties

Microbial desulfurization of pyritic coal
By Gupta, A. / Saroj, K. / Thakur, D.N.
Chemical ERA, Vol. 13, Iss. 8, p. 238-243, Sept. 1977

1077 57 Conference proceedings, Properties

Oxidation of coal by alkaline sodium hypochlorite
By Chakrabartty, S.K. Alberta Research Council, Edmonton, Alberta
Symposium, Division of Fuel Chemistry, 174th Meeting of the American Chemical Society, Chicago, Illinois, p. 100-107, Alberta Research Council Contribution No. 868, Sept. 1977
Report No.: ARC.868

1077 58 Book, Properties

A sulfur isotope study of Illinois basin coals
By Price, F.T.
Thesis, Ph.D., Purdue University, West-Lafayette, Indiana, 1977
Report No.: UMI.7813105

1077 59 Article, Properties

Devolatilization characteristics of carbonaceous solid fuels, with special reference to coal
By Mitra, P.K. / Tarafdar, T.C. / Raja, K. / Banerjee, N.G. Central Fuel Research Institute, Dhanbad, India
Indian J. Technol., Vol. 15, Iss. 9, p. 375-380, Sept. 1977

1077 60 Article, Properties

Electrical conductivity of gas saturated coals
By Kusov, N.F. / Martsinkevich, G.I. / Kuznetsova, S.N.
Sov. Min. Sci., Vol. 13, No. 5, Oct. 1977, p. 517-520, Oct. 1977

1077 61 Book, Properties

A geochemical study of the inorganic constituents in some low rank coals
By Miller, R.N. Pennsylvania State University, University-Park, Pennsylvania
Thesis, Ph.D., Pennsylvania State University, University-Park, Pennsylvania, 1977
Report No.: UMI.78-8396

1077 62 Article, Properties

A new standard for electron microanalysis of organic sulfur in coal
By Raymond, R. / Gooley, R. Los-Alamos Scientific Laboratory, University of California, Los-Alamos, New-Mexico
United-States Energy Research and Development Administration, 1977
Report No.: NTIS.LA-UR-77-1870

1077 63 Article, Properties

The variation of the microhardness and reflectance of coal under conditions of oxidation simulating weathering
By Nandi, B.N. / Ciavaglia, L.A. / Montgomery, D.S. Canada Centre for Mineral and Energy Technology, Ottawa, Ontario
J. Microsc., Vol. 109, Iss. 1, p. 93-103, 1977

1077 64 Article, Properties

The standardization of petrographic analysis of coal
By Juckes, L.M. / Pitt, G.J. British Steel Corporation, Cleveland, United-Kingdom
J. Microsc. (Oxford), Vol. 109, Iss. 1, p. 13-21, 1977

1077 65 Polish Book, Properties, Gasification

New trends in coal utilization
By Vomacka, J. / Pulz, K. / Koranda, J.
Ustav Pro Vyzkum A Vyuziti Paliv, Bechovice, Monografie UVP, c. 45, 1977

1077 66 Article, Properties

Status of peat research in Minnesota
By Franham, R.S. University of Minnesota, St.-Paul, Minnesota
The 50th Annual Meeting Minnesota Section AIME, and the 38th Annual Mining Symposium, held in Duluth, Minnesota, Jan. 1977

1077 67 Article, Properties, Beneficiation

Evaluation of pyrite particle size, shape and distribution factors for coal channel samples
By Greer, R.T.
Proc. Annu. Meet., Electro Microsc. Soc. Am., Vol. 35, p. 150-1, 1977

1077 68 Report, Properties

Thermophysical and transport properties of metals at high pressure and very high temperature
By Shaner, J.W. / Gathers, G.R. Lawrence Livermore Laboratory, University of California, Livermore, California
Proceedings of the Sixth AIRAPT International High Pressure Conference, Boulder, Colorado, June 1977
Report No.: NTIS.UCRL-79586

1077 69 Book, Properties

Dynamic particle size measurement of coal dust
By Marple, V.A. / Rubow, K.L. University of Minnesota, Minneapolis, Minnesota
United-States Bureau of Mines, Washington, D.C., Feb. 1977
Report No.: NTIS.PB-285 096

1077 70 Report, Properties

Surface properties of coal
By Sundberg, D.G. / Abadi, M.J. / Giroux, M.S.
Oak-Ridge National Laboratory, Oak-Ridge, Tennessee, Dec. 1977

1077 71 Article, Properties

A new technique for measuring reflectance of vitrinite and dispersed vitrinite in sediments
By Ting, F.T. / Lo, H.B. West-Virginia University, Morgantown, West-Virginia
Chunk-Kuo Ti. Chih. Hsueh Hui Chuan K'an, Vol. 2, p. 239-243, 1977

1077 72 Book, Properties, Gasification

Effect of cation exchange on the subsequent reactivity of lignite chars to steam, Technical report No. 4
By Hippo, E.J. / Walker, P.L. Pennsylvania State University, University-Park, Pennsylvania
United-States Department of Energy, Washington, D.C., March 1977
Report No.: NTIS.FE-2030-TR4

1077 73 Report, Properties

Catalytic activity of coal mineral matter, Annual report, January 1976 - March 1977
By Hamrin, C.E. University of Kentucky, Lexington, Kentucky

United-States Department of Energy, Washington, D.C., Sept. 1977
Report No.: NTIS.FE-2233-3

1077 74 Book, Properties, Gasification

Characteristics of chars produced by pyrolysis following rapid heating of pulverized coal, Technical report 2
By Nsakala, N.Y. / Walker, P.L. / Essenhigh, R.H. Pennsylvania State University, University-Park, Pennsylvania
United-States Department of Energy, Washington, D.C., Feb. 1977
Report No.: NTIS.FE-2030-TR2

1077 75 Article, Properties

Macromolecular structure of coals and their technological properties
By Shapiro, M.D. / Al'Terman, L.S.
Solid Fuel Chem., Vol. 11, No. 3, p. 13-17, 1977

1077 76 Article, Properties

Mechanism of the oxidation and the molecular structure of brown and lean coals
By Kukharenko, T.A.
Solid Fuel Chem., Vol. 11, No. 3, p. 57-62, 1977

1077 77 Article, Properties

Rational parameters of a genetic and industrial classification of coals
By Lapin, A.A. / Pereverzev, G.A.
Solid Fuel Chem., Vol. 11, No. 3, p. 46-51, 1977

1077 78 Article, Properties

Physical properties and structure of anthracites
By Posyl'nyi, V.Y.
Solid Fuel Chem., Vol. 11, No. 3, p. 18-22, 1977

1077 79 Article, Properties

Questions of the chemistry and structure of coals
By Zharova, M.N. / Larina, N.K. / Lukovnikov, A.F.
Solid Fuel Chem., Vol. 11, No. 3, p. 8-12, 1977

1077 80 Article, Properties

Reflectance as an important optical characteristic of coals

By Dobronravov, V.F. / Romanovskaya, M.V.
Solid Fuel Chem., Vol. 11, No. 5, p. 55-60, 1977

1077 81 Article, Properties

Sorption capacity of brown coals
By Agroskin, A.A. / Lyashchenko, V.I. / Svyatets, I.E.
Solid Fuel Chem., Vol. 11, No. 5, p. 18-22, 1977

1077 82 Article, Properties

Low temperature oxidation of coals in relation to the solution of problems of their rational storage
By Petrik, G.K. / Kucherenko, V.A. / Perepelitsa, A.G.
Solid Fuel Chem., Vol. 11, No. 4, p. 10-14, 1977

1077 83 Article, Properties

Investigation of coals by stepwise oxidation
By Motovilova, L.V. / Ekaterinina, L.N.
Solid Fuel Chem., Vol. 11, No. 4, p. 102-103, 1977

1077 84 Article, Properties

Comprehensive utilization of the mineral components of coals
By Ruban, V.A. / Cherevko, I.E. / Shpirt, M.Y.
Solid Fuel Chem., Vol. 11, No. 3, p. 123-128, 1977

1077 85 Article, Properties

Direct electrochemical method of determining the degree of reduction of a coal
By Lapin, A.A.
Khimiya Tverdogo Topliva, Vol. 11, No. 5, p. 37-43, 1977

1077 86 Article, Properties

Coal stream composition analysis for process control using prompt neutron activation analysis
By Gozani, T. / Reynolds, G. / Elias, E. / Maung, T. / Bozorgmanesh, H. / Orphan, V. Science Applications, Inc., Palo-Alto, California
United-States Department of Energy, Washington, D.C., July 1977
Report No.: NTIS.ANL-78-7

1077 87 Book, Properties

Survey of selected agencies conducted to determine the extent to which the nation's coals are adequately characterized, Technical Report No. 5
By Hower, J.M. / Davis, A. / Dolsen, C.P. / Spackman, W. Pennsylvania State University, University-Park, Pennsylvania
United-States Department of Energy, Washington, D.C., Oct. 1977
Report No.: NTIS.FE-2030-TR5

1077 88 Article, Properties

Determination of sulfur, ash, and trace element content of coal, coke, and fly ash using multielement tube excited x ray fluorescence analysis
By Cooper, J.A. / Sheeler, B.D. / Wolfe, G.J. / Bartell, D.M.
Adv. X-ray Anal., Vol. 20, p. 431-6, 1977

1077 89 Article, Properties

X ray diffraction examination of coal combustion products related to boiler tube fouling and slagging
By Mazza, M.H. / Wilson, J.S.
Adv. X-ray Anal., Vol. 20, p. 85-101, 1977

1077 90 Book, Properties, Gasification

Hot low Btu producer gas desulfurization in fixed bed of iron oxide fly ash. Final report, July 1975 - April 1977. Volume 2
By Joshi, D.K. / Leuenberger, E.L. Air Products and Chemicals, Inc., Marcus-Hook, Pennsylvania
Energy Research and Development Administration, Washington, D.C., Sept. 1977
Report No.: NTIS.FE-2033-19

1077 91 Book, Properties

Instrumentation and process control for fossil demonstration plants, Annual Technical Progress Report, Oct. 1976 - Sept. 1977
By LeSage, L.G. / O'Fallon, N.M. Argonne National Laboratory, Argonne, Illinois
United-States Department of Energy, Washington, D.C., Oct. 1977
Report No.: NTIS.ANL-FE-49622-12

1077 92 Book, Properties, Liquefaction

Chemical characterization, handling and refining of solvent refined coal to liquid fuels, Final Report
By Givens, E.N. / Collura, M.A. / Alexander, W. / Greskovich, E.J. / Engelman, C.D. / Wetherington, J.B. / Clump, C.W. / Levy, E.K. Air Products and Chemicals, Inc., Allentown, Pennsylvania
United-States Department of Energy, Washington, D.C., Sept. 1977
Report No.: NTIS.FE-2003-27

1077 93 Article, Properties

Utilization of the ash slag wastes from solid fuel

By Glushnev, S.V.
Solid Fuel Chemistry, Vol. 11, No. 6, 1977, p. 120-122, 1977

1077 94 Article, Properties

Change in the yield of humic acids on the oxidation of brown coal with oxygen
By Sukhov, V.A. / Egorova, S.I. / Zamyslov, V.B.
Solid Fuel Chemistry, Vol. 11, No. 6, p. 31-35, 1977

1077 95 Article, Properties

Sorption properties and gas content of coals of high ranks
By Posyl'nyi, V.Y.
Solid Fuel Chemistry, Vol. 11, No. 6, p. 46-48, 1977

1077 96 Book, Properties

Mass spectrometric analytical services and research activities to support coal liquid characterization research
By Scheppele, S.E. Oklahoma State University, Stillwater, Oklahoma
Energy Research and Development Administration, Washington, D.C., Sept. 1977
Report No.: NTIS.COO-0020-8

1077 97 Book, Properties, Gasification

Hot low Btu producer gas desulfurization in fixed bed of iron oxide fly ash. Final report, July 1975 - April 1977. Volume 1
By Joshi, D.K. / Leuenberger, E.L. Air Products and Chemicals, Inc., Marcus-Hook, Pennsylvania
Energy Research and Development Administration, Washington, D.C., Sept. 1977
Report No.: NTIS.FE-2033-19

1077 98 Book, Properties, Environment

The basis of adsorption of water pollutants by coal. Volume I
By Fadl, S.M.M.
University of British-Columbia, Vancouver, British-Columbia, Oct. 1977

1077 99 Book, Properties, Environment

The basis of adsorption of water pollutants by coal. Volume II
By Fadl, S.M.M.
University of British-Columbia, Vancouver, British-Columbia, Oct. 1977

1077 100 Report, Properties

An XPS study of the oxidation of pyrite and pyrites in coal
By Frost, D.C. / Leeder, W.R. / Tapping, R.L. / Wallbank, B. IPC Science and Technology Press Ltd
Fuel, Vol. 56, July 1977, p. 277-280, July 1977

1077 101 Article, Properties

A modified procedure for determination of the fluorine content in geological materials
By Youh, C. National Taiwan University, Taipei, Taiwan
ACTA. Geol. Taiwan., Vol. 19, p. 55-61, Dec. 1977

1077 102 Patent, Properties

Recovering uranium from coal in situ
By Terry, R.C. In Situ Technology, Inc., Denver, Colorado
Assignees: In Situ Technology, Denver, Colorado, 4113313, Sept. 1978, Patent: United-States, Appl. 797536, May 1977
Report No.: p.4113313

1077 103 Article, Properties, Geology

Federal leasing: The need for a persepective
By Lee, C. / Russell, D. United-States Department of the Interior, Washington, District-of-Columbia
Min. Eng., Vol. 29, No. 5, p. 23-34, May 1977

1077 104 Report, Properties

Hydrocracking of Athabasca bitumen: Effect of coal base catalyst on pilot plant operation
By Khulbe, C.P. / Pruden, B.B. / Denis, J.M. Canada Centre for Mineral and Energy Technology, Ottawa, Ontario
Department of Energy, Mines and Resources, Ottawa, Ontario, 1977
Report No.: DEMR.2735589

1077 105 Report, Properties

Pore structure development during carbonization of blended charges
British Carbonization Research Association, Chesterfield, Derbyshire, United-Kingdom
The British Carbonization Research Association, Chesterfield, Derbyshire, England, July 1977, July 1977
Report No.: BCRA 39

1077 106 Article, Properties, Gasification

Reactivity of coal and char. 2. In oxygen - nitrogen atmosphere
By Dutta, S. / Wen, C.Y. West-Virginia University, Morgantown, West-Virginia
Ind Eng Chem Process Des Dev, Vol. 16, No. 1, p. 31-37, 1977

1077 107 Report, Properties, Liquefaction

Characterization of the heavy products of coal pyrolysis
By Gavalas, G.R. / Oka, M. California Institute of Technology, Pasadena, California
National Science Foundation, 12p., 1977
Report No.: PB80-127152

1077 108 Report, Properties

An automatic recording plastometer for plastic properties of coal
By Wu, W.R. / Kirby, T. Pittsburgh Energy Research Center, Pittsburgh, Pennsylvania
Pittsburgh Energy Research Center, Pittsburgh, Pennsylvania, 23p., 1977
Report No.: PERC/RI-77/11

1077 109 Article, Properties, Liquefaction, Gasification

A study by the ESR method of the interaction of the solid products of the pyrolysis of brown coals with atmospheric oxygen
By Nedoshivin, Y.N.
Solid Fuel Chem, Vol. 11, No. 4, p. 115-116, 1977

1078 0 Article, Properties

Moessbauer spectroscopic investigation of iron species in coal
By Smith, G.V. / Liu, J.H. / Saporoschenko, M.
Fuel, Vol. 57, No. 1, Jan. 1978, p. 41-45, Jan. 1978

1078 1 Article, Properties

Sample and analyze coal shipments
By Gould, G.
Power, Vol. 122, No. 3, March 1978, p. 72-73, March 1978

1078 2 Japanese Article, Properties

Polymeric character, micellar structure and compatibility of coal
By Sanada, Y.
J. Fuel Soc. Jpn., Vol. 57, No. 609, Jan. 1978, p. 3-11, Jan. 1978

1078 3 Article, Properties

Comparative characteristics of vitrinites of Carboniferous coals of the Ukraine and Jurassic coals of Siberia
By Lapo, A.V.
Fuel, March 1978, Vol. 57, Iss. 3, p. 179-184, March 1978

1078 4 Article, Properties

Effect of carbonate minerals on volatile matter of coals
By Choudhury, S.S. / Ganguly, P.C.
Fuel, March 1978, Vol. 57, No. 3, p. 175-179, March 1978

1078 5 Article, Properties

The nature of coking coals
By Jasienko, S.
Fuel, March 1978, Vol. 57, No. 3, p. 131-147, March 1978

1078 6 Article, Properties

Submicron sized mineral component of vitrinite
By Strehlow, R.A. / Harris, L.A. / Yust, C.S.
Fuel, March 1978, Vol. 57, Iss. 3, p. 185-6, March 1978

1078 7 Article, Properties

Physical and morphological studies of size classified coal fly ash
By Fisher, G.L. / Prentice, B.A. / Silberman, D.
Environ. Sci. Technol., April 1978, Vol. 12, Iss. 4, p. 447-51, April 1978

1078 8 Article, Properties, Liquefaction

Fluorescence spectroscopy in the characterization of coal derived liquids
By Karshaw, J.R.
Fuel, Vol. 57, No. 5, May 1978, p. 299-303, May 1978

1078 9 Article, Properties

Material balance in coal. 2. Oxygen determination and stoichiometry of 33 coals
By Volborth, A. / Miller, G.E. / Garner, C.K. / Jerabek, P.A.
Fuel, Jan. 1978, Vol. 57, Iss. 1, p. 49-55, Jan. 1978

1078 10 Article, Properties

Inherent mineral matter in coal and its effect upon hydrogenation
By Gray, D.
Fuel, April 1978, Vol. 57, Iss. 4, p. 213-16, April 1978

1078 11 Article, Properties

On the distribution of organic sulfur functional groups in coal.
By Attar, A. / Dupuis, F. American Chemical Society, Washington, District-of-Columbia
Prepr. of Papers presented at Anaheim, California, Volume 23, No. 2, March 1978

1078 12 Article, Properties

Aliphatic structures in coal
By Deno, N.C. / Greigger, B.A. / Stroud, S.G. American Chemical Society, Washington, District-of-Columbia
Prepr. of Papers presented at Anaheim, California, Volume 23, No. 2, March 1978

1078 13 Article, Properties

Determination of sulfur and moisture in coal using capture gamma rays
By Fay, D.A. / Pazirandeh, A. / Struss, R.G. / Wechter, M.A.
J. Radioanal. Chem., Aug. 1978, Vol. 43, Iss. 1, p. 263-74, Aug. 1978

1078 14 Article, Properties

Hydrated sulfates in the Sydney coalfield, Cape Breton, Nova Scotia
By Zodrow, E.L. / McCandlish, K.
Can. Mineral., Vol. 16, Iss. 2, p. 17-22, 1978

1078 15 Article, Properties

Coal tar chemistry - today and tomorrow
By Collin, G. / Mildenberg, R.
Chemistry and Industry, Aug. 1978, Iss. 15, p. 567-571, Aug. 1978

1078 16 Article, Properties

The 1977 Robens coal science lecture: The constitution of coal and its relevance to coal conversion processes
By Gibson, J.
J. of the Institute of Fuel, June 1978, Vol. 51, Iss. 407, p. 67-81, June 1978

1078 17 German Article, Properties

Molecular complex between humic substance from brown coal and aromatic hydrocarbon
By Von-Kress, B.N.
Chem. Erde Bd., Vol. 37, Iss. 1, p. 101-106, 1978

1078 18 Report, Properties

The distribution of sulfur in organic fractions of peat: origins of sulfur in coal
By Casagrande, D.J. / Gronli, K. / Patel, V.
Environ. Biogeochem. Geomicrobiol., Proc. Int. Symp., 3rd, Vol. 2, p. 515-21, 1978

1078 19 Article, Properties

Indirect measurement of sedimentation rates at high temperature and pressure by x ray photography
By Ondeyka, J.G. / Henry, J.D. / Verhoff, F.H.
Ind. Eng. Chem. Fundam., Vol. 17, Iss. 3, p. 217-21, 1978

1078 20 Article, Properties

Nuclear spin relaxation in cobalt aluminum (coal) system
By Mizuguchi, K. / Kontani, M. / Masuda, Y.
Solid State Commun., Vol. 28, Iss. 3, p. 267-71, 1978

1078 21 Report, Properties

Ethanol motor fuels and gasohol
By Sladek, T.A.
Colorado School of Mines, Mineral Industries Bulletin, Volume 21, No. 3, May 1978

1078 22 Article, Properties

X ray crystallography and brown coal structure
By Camier, R.J. / Siemon, S.R.
Fuel, Aug. 1978, Vol. 57, Iss. 8, p. 508-10, Aug. 1978

1078 23 Article, Properties

Reporting of analyses of low rank coals on the dry, mineral matter free basis
By Given, P.H. / Spackman, W.
Fuel, May 1978, Vol. 57, Iss. 5, p. 319, May 1978

1078 24 Article, Properties

Characterization of coal ash with x ray photoelectron spectroscopy (ESCA)
By Schneider, W.D. / Luengo, C.A.
Int. J. Energy Res., Jan. 1978, Vol. 2, Iss. 2, p. 123-31, Jan. 1978

1078 25 Article, Properties

Coal in South Africa: Part II. The application of petrography to the characterization of coal
By Falcon, R.M.S.
Miner. Sci. Eng., Vol. 10, Iss. 1, p. 28-52, 1978

1078 26 Article, Properties

Carbon 13 Hydrogen 1 Cross polarization nuclear magnetic resonance spectra of macerals from coal
By Retcofsky, H.L. / Vanderhart, D.L.
Fuel, Vol. 57, No. 7, July 1978, p. 421-423, July 1978

1078 27 Article, Properties, Geology

Systematic variability in the mineralogy of the low temperature ash of some North American coals
By Renton, J.J.
Energy Sources, Vol. 4, Iss. 2, p. 91-112, 1978

1078 28 Article, Properties

Raman scattering and luminescence in coal and graphite.
By Tsu, R. / Gonzales, H. / Hernandez, C.
Solid State Commun., Vol. 24, No. 12, Dec. 1977, p. 809-812, Dec. 1977

1078 29 Article, Properties

Magnetic hyperfine parameters of iron containing minerals in coals
By Russell, P.E. / Montano, P.A.
J. Appl. Phys., Vol. 49, Iss. 3, Pt. 2, p. 1573-1575, 1978

1078 30 Article, Properties

Influence of non coking coal on the quality of metallurgical coke
By Akamatsu, K. / Miyazai, T. / Nishioka, K.
Sumitomo Search, No. 19, May 1978, p. 1-13, May 1978

1078 31 Article, Properties

Comparison of models for the characterization of solids mixtures
By Kristensen, H.G.
Chem. Eng. Sci., Vol. 33, Iss. 5, p. 555-9, 1978

1078 32 Article, Properties

Nuclear magnetic resonance spectra of two reductively ethylated fuels

By Dogru, R. / Erbatur, G. / Gaines, A.F. / Yurum, Y.
Fuel, Vol. 57, Iss. 7, p. 399-404, 1978

1078 33 Article, Properties, Liquefaction

Molecular weights of solubilized coal products
By Ignasiak, B.S. / Chakrabartty, S.K. / Berkowitz, N.
Fuel, Vol. 57, Iss. 8, p. 507-8, 1978

1078 34 Article, Properties

Simultaneous oxygen, carbon, nitrogen, sulfur and silicon determination in coal by proton induced gamma ray analysis
By Macias, E.S. / Barker, J.H.
J. Radioanal. Chem., Vol. 45, Iss. 2, p. 387-94, 1978

1078 35 Article, Properties, Environment

Nucleation properties of fly ash in a coal fired power plant plume
By Parungo, F.P. / Ackerman, E. / Proulx, H. / Pueschel, R.F.
Atmos. Environ., Vol. 12, No. 4, p. 929-935, 1978

1078 36 Article, Properties, Environment

Responses of heterotrophic bacterial populations to pH changes in coal ash effluent
By Guthrie, R.K. / Cherry, D.S. / Singleton, F.L.
Water Resourc. Bull., Vol. 14, No. 4, Aug. 1978, p. 803-808, Aug. 1978

1078 37 Article, Properties

Differential thermal and thermogravimetric studies and some trace element contents of some coals and carbonaceous shales from West Central Sinai, Egypt
By Gindy, A.R. / El-Askary, M.A. / Khalil, S.O.
Chem. Geol., Iss. 4, June 1978, p. 267-283, June 1978

1078 38 Article, Properties

Hot compaction behavior of char/binder coal systems
By Chow, C. / Chaklader, C.D. / Warren, I.H.
Fuel, Vol. 57, Iss. 7, p. 387-393, 1978

1078 39 Article, Properties, Environment

Elemental particle size emissions from coal fired power plants: Use of an inertial cascade impactor

By Ondov, J.M. / Ragaini, R.C. / Biermann, A.H.
Atmos. Environ., Vol. 12, No. 5, p. 1175-1185, 1978

1078 40 Article, Properties

Charge transfer study of FeAl and CoAl using compton scattering
By Chaddah, P. / Sahni, V.C.
Philos Mag. B., Vol. 37, No. 3, March 1978, p. 305-310, March 1978

1078 41 Article, Properties

Charge transfer complexes of coal derived asphaltenes
By Schwager, I. / Kwan, J.T. / Miller, J.G. / Yen, T.F. University of Southern California, Los-Angeles, California
American Chemical Society, Division of Fuel Chemistry, preprints of papers presented at Anaheim, California, Vol. 23, No. 1, March 1978

1078 42 Article, Properties

An infrared absorption study of coal metal salt catalyst interactions
By Lee, J.M. / Wood, R.E. / Wiser, W.H. University of Utah, Salt-Lake-City, Utah
American Chemical Society, Division of Fuel Chemistry, preprints of papers presented at Anaheim, California, Vol. 23, No. 1, March 1978

1078 43 Article, Properties, Liquefaction

Moessbauer spectroscopy of iron in coal and coal hydrogenation products
By Beisch, B. / Gibbon, G.A. / Akhtar, S. Carnegie-Mellon University, Pittsburgh, Pennsylvania
American Chemical Society, Division of Fuel Chemistry, preprints of papers presented at Anaheim, California, Vol. 23, No. 1, March 1978

1078 44 Article, Properties, Combustion

Characterization of trace element emissions from coal fired power plants
By Ondov, J.M. / Ragaini, R.C. / Biermann, A.H. Lawrence Livermore Laboratory, University of California, Livermore, California
Third International Conference on Nuclear Methods in Environmental and Energy Research, University of Missouri, Columbia, Missouri, Feb. 1978
Report No.: NTIS.CONF-771072-6

1078 45 Article, Properties

Extraction increase of coals treated with alcohol sodium hydroxide at elevated temperatures
By Makabe, M. / Hirano, Y. / Ouchi, K.
Fuel, Vol. 57, Iss. 5, p. 289-292, 1978

1078 46 Article, Properties

Thermodynamics of adsorption of organic compounds on the surface of Bruceton coal measured by gas chromatography
By Larsen, J.W. / Kennard, L. / Kuemmerle, E.W.
Fuel, Vol. 57, Iss. 5, p. 309-313, 1978

1078 47 Article, Properties

A sensitive photoelectric winkler titrator for respiration measurements
By Hartwig, E.O. / Michael, J.A.
Environ. Sci. Technol., Vol. 12, Iss. 6, p. 712-715, 1978

1078 48 Article, Properties

Catalytic synthesis of methanol from carbon monoxide/hydrogen gas
By Herman, R.G. / Klier, K. / Simmons, G.W. / Finn, B.P. / Bulko, J.B. / Kobylinski, T.P. Lehigh University, Bethlehem, Pennsylvania
Symposium, Division of Petroleum Chemistry, Inc., American Chemical Society, Anaheim, California, March 1978

1078 49 Article, Properties

EPR study of the absorption of iodine by coal
By Aronson, S. / Mittelman, J.J. / Zygler, S. / Bramwell, F.B. Brooklyn College, Brooklyn, New-York
Carbon, Vol. 16, Iss. 1, p. 69-72, 1978

1078 50 Article, Properties

Application of Moessbauer spectroscopy to monitor acid mine drainage potentials of coal seams
By Stiller, A.H. / Renton, J.J. / Montano, P.A. West-Virginia State Geological Survey, Morgantown, West-Virginia
Fuel, Vol. 57, Iss. 7, p. 447-448, 1978

1078 51 Book, Properties

Differential scanning calorimetry of coal
By Gold, P.I. University of California, Los-Angeles, California
National Aeronautics and Space Administration, 1978

1078 52 Article, Properties

Pyrite morphology in lignitic coal and associated strata of east Texas
By Arora, H.S. / Dixon, J.B. / Hossner, L.R. Texas A&M University, College-Station, Texas
Soil Sci., Vol. 125, Iss. 3, p. 151-159, 1978

1078 53 Report, Properties

High temperature carbon dioxide/oxygen coal reaction rate experiments
By Wagner, P. / Olsen, J.D. / Wewerka, E.M. / Williams, J.M. / Bertino, J.P. / Vanderborgh, N.E. Los-Alamos Scientific Laboratory, University of California, Los-Alamos, New-Mexico
United-States Department of Energy, Washington, D.C., May 1978
Report No.: NTIS.LA-7277-MS

1078 54 Article, Properties

The preparation of polished sections and the structure of natural coal
By Weidmann, E. / Kopp, W.U.
Prakt. Metallogr., Vol. 15, Iss. 6, p. 287-301, 1978

1078 55 Article, Properties

New method for elucidating the structures of coal
By Deno, N.C. / Greigger, B.A. / Stroud, S.G. Pennsylvania State University, University-Park, Pennsylvania
Fuel, Vol. 57, No. 8, Aug. 1978, p. 455-459, Aug. 1978

1078 56 Article, Properties

Assessment of structures in coal by spectroscopic techniques
By Speight, J.G. Alberta Research Council, Edmonton, Alberta
Analytical Methods for Coal and Coal Products, Vol. II, p. 75-101, 1978

1078 57 Article, Properties

Trapped organic compounds and aromatic units in coals
By Hayatsu, R. / Winans, R.E. / Scott, R.G. / Moore, L.P. / Studier, M.H. Argonne National Laboratory, Argonne, Illinois
Fuel, Vol. 57, No. 9, Sept. 1978, p. 541-548, Sept. 1978

1078 58 Article, Properties

Microbial succession and mineral leaching in an artificial coal spoil
By Harrison, A.P.
Applied and Environmental Microbiology, Vol. 36, Iss. 6, p. 861-9, 1978

1078 59 Article, Properties

Side reactions in the reductive alkylation of low rank coal
By Franz, J.A. / Skiens, W.E. Battelle Memorial Institute, Richland, Washington

Fuel, Vol. 57, No. 8, Aug. 1978, p. 502-504, Aug. 1978

1078 60 Book, Properties, Combustion

Trace element distributions in several coal conversion processes
By Williams, J.M. / Hensley, W.K. / Wewerka, E.M. / Wanek, P.L. / Olsen, J.D. Los-Alamos Scientific Laboratory, University of California, Los-Alamos, New-Mexico
United-States Department of Energy, Feb. 1978
Report No.: NTIS.LA-7100-MS

1078 61 Article, Properties

Aromaticity of coal extract by 1H and 13C pulsed n.m.r. methods
By Yokono, T. / Miyazawa, K. / Sanada, Y. Hokkaido University, Sapporo, Japan
Fuel, Vol. 57, No. 9, Sept. 1978, p. 555-558, Sept. 1978

1078 62 Article, Properties

Particle chromatographic separation of coal fly ash
By Kane, R.P. / Wilcox, W.R.
Sci. Technol., Vol. 13, No. 7, Sept. 1978, p. 565-572, Sept. 1978

1078 63 Article, Properties

Fourier transform infrared study of mineral matter in coal. A novel method for quantitative mineralogical analysis
By Painter, P.C. / Coleman, M.M. / Jenkins, R.G. Pennsylvania State University, University-Park, Pennsylvania
Fuel, Vol. 57, Iss. 6, p. 337-344, 1978

1078 64 Article, Properties

Fluorescence spectroscopy in the characterization of coal derived liquids
By Kershaw, J.R. Fuel Research Institute of South-Africa, Pretoria, South-Africa
Fuel, Vol. 57, Iss. 5, p. 299-303, 1978

1078 65 Article, Properties

Effect of Friedel Crafts alkylation on the caking properties of bituminous coal
By Schlosberg, R.H. / Gorbaty, M.L. / Lang, R.J. Exxon Research and Engineering Company, Linden, New-Jersey
Fuel, Vol. 57, No. 7, July 1978, p. 424-426, July 1978

1078 66 Article, Properties

Porous nature of solvent extracted coals

By Jenkins, R.G. / Mitchell, S.C. University of Leeds, Leeds, United-Kingdom
Fuel, Vol. 57, Iss. 7, p. 394-398, 1978

1078 67 Article, Properties

Porous structure of Maghara coal
By Mikhail, R.S. / Youssef, A.M. Ain Shams University, Cairo, Egypt
Egypt J. Chem., Vol. 18, Iss. 4, p. 661-672, 1978

1078 68 Article, Properties

Nuclear magnetic relaxation studies of coal
By Yokono, T. / Sanada, Y. Hokkaido University, Sapporo, Japan
Fuel, Vol. 57, Iss. 6, p. 334-336, 1978

1078 69 Book, Properties

Study of the interrelationships among chemical and petrographic variables of United States coals, Technical report 9
By Waddell, C. / Davis, A. / Spackman, W. / Griffiths, J.C. Pennsylvania State University, University-Park, Pennsylvania
United-States Department of Energy, Washington, D.C., March 1978
Report No.: NTIS.FE-2030-TR9

1078 70 Report, Properties

A tabular method for obtaining empirical formulas from high resolution mass spectral data
By Guffey, F.D. / Weber, J.H. Laramie Energy Research Center, Laramie, Wyoming
United-States Department of Energy, Washington, D.C., June 1978
Report No.: NTIS.LERC/RI-78/3

1078 71 Report, Properties

Analysis of twenty three West Virginia coals
By Smith, W.M. / Kim, Y.N. West-Virginia University, Morgantown, West-Virginia
West-Virginia University Coal Research Bureau, Morgantown, West-Virginia, March 1978
Report No.: WVA.152

1078 72 Book, Properties

Analytical methods for coal and coal products, Volume 1
By Karr, C. Morgantown Energy Research Center, Morgantown, West-Virginia
Academic Press, Inc., New-York, New-York, 1978

1078 73 Book, Properties

Analytical methods for coal and coal products, Volume 2
By Karr, C. Morgantown Energy Technology Center, Morgantown, West-Virginia
Academic Press, Inc., New-York, New-York, 1978

1078 74 Article, Properties, Combustion

A study of production and growth of sulfate particles in plumes from a coal fired power plant
By Dittenhoefer, A.C. / DePena, R.G. Pennsylvania State University, University-Park, Pennsylvania
Atmos. Environ., Vol. 12, Iss. 1-3, p. 297-306, 1978

1078 75 Article, Properties, Combustion

Aerosol size distributions and aerosol volume formation for a coal fired power plant plume
By Cantrell, B.K. / Whitby, K.T. University of Minnesota, Minneapolis, Minnesota
Atmos. Environ., Vol. 12, Iss. 1-3, p. 323-333, 1978

1078 76 Article, Properties

Nuclei formation rates in a coal fired power plant plume
By Whitby, K.T. / Cantrell, B.K. / Kittelson, D.B. University of Minnesota, Minneapolis, Minnesota
Atmos. Environ., Vol. 12, Iss. 1-3, p. 313-321, 1978

1078 77 Article, Properties

Coal slurry diagnostics by ultrasound transmission
By Davis, M.C. Northwestern University, Evanston, Illinois
J. Acoust. Soc. Am., Vol. 64, No. 2, Aug. 1978, p. 406-410, Aug. 1978

1078 78 Article, Properties

The determination of total moisture in brown coal by azeotropic distillation using a non flammable liquid
By Kinson, K.
Chem. Aust., Vol. 45, Iss. 8, p. 271-273, 1978

1078 79 Article, Properties, Liquefaction

Ultra high resolution mass spectrometry analysis of petroleum and coal products
By Lumpkin, H.E. / Aczel, T. Exxon Research and Engineering Company, Baytown, Texas
ACS Symp. Ser., Vol. 70, p. 261-273, 1978
Report No.: ACS.70

1078 80 Report, Properties

Gamma radiography of refractory lined vessels and components
By Lapinski, N.P. Argonne National Laboratory, Argonne, Illinois
United-States Department of Energy, Washington, D.C., Aug. 1978
Report No.: NTIS.ANL-78-43

1078 81 Article, Properties, Transportation

Continuous extrusion of coal
By England, C. / Kushida, R.O. / Daksla, C. California Institute of Technology, Pasadena, California
Chem. Eng. Prog., Vol. 74, No. 8, Aug. 1978, p. 92-94, Aug. 1978

1078 82 Article, Properties, Geology

Anisotropy of magnetic susceptibility measurements as a coal banding plane indicator
By Ellwood, B.B. / Noltimier, H.C.
Nature, July 1978, Vol. 274, Iss. 5669, p. 353-354, July 1978

1078 83 Article, Properties

Determination of forms of sulfur in coals
By Given, P.H. / Miller, R.N.
Fuel, June 1978, Vol. 57, Iss. 6, p. 380-381, June 1978

1078 84 Book, Properties

The measurement of reflectance of coal macerals - Its automation and significance, Technical Report 10
By Davis, A. Pennsylvania State University, University-Park, Pennsylvania
United-States Department of Energy, Washington, D.C., June 1978
Report No.: NTIS.FE-2030-TR10

1078 85 Book, Properties

A review of some physical methods of coal characterization, their application in constitution analysis and relevance to industrial utilization, Technical Report 11
By Davis, A. Pennsylvania State University, University-Park, Pennsylvania
United-States Department of Energy, Washington, D.C., Nov. 1978
Report No.: NTIS.FE-2030-TR11

1078 86 Book, Properties

Coal minerals bibliography, Final Report, June 1977 - July 1978
By Akers, D.J. / McMillan, B.G. / Leonard, J.W. Coal Research Bureau, West-Virginia University, Morgantown, West-Virginia

United-States Department of Energy, Washington, D.C., July 1978
Report No.: NTIS.FE-2692-5

1078 87 Article, Properties

Moessbauer studies of coal and coke: Quantitative phase identification and direct determination of pyritic and iron sulfide sulfur content
By Huffman, G.P. / Huggins, F.E.
Fuel, Vol. 57, No. 10, Oct. 1978, p. 592-604, Oct. 1978

1078 88 Article, Properties, Environment

Radioactivity in stored coal ash and in nuclear power waste
By Pigford, T.H.
Trans. Am. Nucl. Soc., Vol. 30, p. 293-294, 1978

1078 89 Article, Properties

Coal analytical assembly using capture gamma rays from accelerator neutrons
By Duffey, D. / Cox, S.A. / Herzenberg, C.L. / O'Fallon, N.M.
Trans. Am. Nucl. Soc., Vol. 30, p. 142-143, 1978

1078 90 Report, Properties

Relationships between chemical structure and technological behavior of coal
By Berkowitz, N. Alberta Research Council, Edmonton, Alberta
Proceedings of The Robert A. Welch Foundation Conferences on Chemical Research, XXII, Chemistry of Future Energy Resources, Houston, Texas, Alberta Research Council Contribution Series 954, Nov. 1978
Report No.: ARC.954

1078 91 Article, Properties

Selecting a mechanical sampling system for a large coal fired power plant
By Gould, G.
Power, Vol. 122, No. 7, July 1978, p. 39-42, July 1978

1078 92 Book, Properties, Gasification

Sulfur resistant methanation catalyst. Final report for the period July 1975 - January 1978
By Hausberger, A.L. / Kustes, W.A. Catalysts and Chemicals Inc., Louisville, Kentucky
United-States Department of Energy, Washington, D.C., April 1978
Report No.: NTIS.FE-2032-9

1078 93 Book, Properties

Characterization of effluents from the carbon dioxide acceptor coal gasification process
By Dunlap, R.W. / Luthy, R.G. / Nakles, D.V. / Massey, M.J. Carnegie-Mellon University, Pittsburgh, Pennsylvania
United-States Department of Energy, Washington, D.C., July 1978
Report No.: NTIS.FE-2496-5

1078 94 Book, Properties

Characterization of the chemical comminution of coal. Final report
By Datta, R.S. / Howard, P.H. Syracuse Research Corporation, Syracuse, New-York
United-States Department of Energy, Washington, D.C., March 1978
Report No.: NTIS.FE-2520-4

1078 95 Article, Properties

Evaluation of pyrite particle size, shape, and distribution factors
By Greer, R.T.
Energy Sources, Vol. 4, No. 1, p. 23-51, 1978

1078 96 Article, Properties

Proton and carbon n.m.r. spectra of butylated coal
By Alemany, L.B. / King, S.R. / Stock, L.M.
Fuel, Vol. 57, No. 12, Dec. 1978, p. 738-748, Dec. 1978

1078 97 Article, Properties

Some physicomechanical properties of coal charge
By Khadzhioglo, A.V. / Lur'e, M.V.
Coke Chem (USSR), No. 2, p. 7-10, 1978

1078 98 Article, Properties

Identification and significance of accessory minerals from a bituminous coal
By Finkelman, R.B. / Stanton, D.W.
Fuel, Vol. 57, No. 12, Dec. 1978, p. 763-768, Dec. 1978

1078 99 Article, Properties

Investigation of some organic Binders
By Wieckowska, J.
Fuel, Vol. 57, No. 12, Dec. 1978, p. 781-784, Dec. 1978

1078 100 Report, Properties

Study of oxygen stoichiometry and analysis of coal, lignite, coke, and derivatives. Final report, March 1976 - July 1978
By Volborth, A. North-Dakota State University, Fargo, North-Dakota
United-States Department of Energy, Washington, D.C., July 1978
Report No.: NTIS.COO-2898-11

1078 101 Book, Properties

Effect of charge preheat on the physical quality of coke from three western coals
By Boley, C.C. / Fegley, M.M. / Porter, R.B. Grand-Forks Energy Technology Center, Grand-Forks, North-Dakota
United-States Department of Energy, Washington, D.C., Feb. 1978
Report No.: NTIS.GFERC/RI-77/3

1078 102 Article, Properties

Method for determining the rate of oxygen sorption by coals and chars at low temperatures
By Young, B.C. / Nordon, P.
Fuel, Vol. 57, No. 9, p. 574-575, 1978

1078 103 Article, Properties

Nitrogen determination in coal and coke with an ammonia electrode
By Doolan, K.J. / Belcher, C.B.
Talanta, Vol. 25, No. 7, p. 398-400, 1978

1078 104 Article, Properties

Differential thermal analysis: A parameter to the study of minerals and catalysis
By Srivastava, R.A. / Sinhamahapatra, P.K.
Met Miner Rev (Calcutta), Vol. 17, No. 3, Feb. 1978, p. 79-87, Feb. 1978

1078 105 Article, Properties

Some thoughts on the organic structure of bituminous coal
By Larsen, J.W.
Proc Coal Chem Workshop, p. 39-51, 1978

1078 106 Article, Properties

Question of the use of the suspension effect for determining the sign of the charge on the surface of coal particles
By Popova, L.A. / Petukhov, V.N.
Solid Fuel Chem, Vol. 12, No. 1, p. 54-58, 1978

1078 107 Article, Properties

Influence of water on the low temperature oxidation of coal
By Saranchuk, V.I. / Galushko, L.Y. / Pashchenko, L.V.
Solid Fuel Chem, Vol. 12, No. 1, p. 6-8, 1978

1078 108 Book, Properties, Combustion, Gasification

Proposals for coal utilization developments of fluidized bed combustion for power generation. Pyrolysis. A composite gasifier
Coal Research Establishment, Cheltenham, United-Kingdom
National Coal Board, London, England, May 1978

1078 109 Book, Properties, Liquefaction

Commercial scale expanded bed hydroprocessing of solvent refined coal (SRC) extract
Cities Service Company, Tulsa, Oklahoma
United-States Department of Energy, Washington, D.C., Aug. 1978
Report No.: NTIS.FE2038-25

1078 110 Article, Properties

Investigation of the nonvolatile liquid substances isolated from the plastic mass of coal
By Miroshnichenko, A.M. / Stepanenko, M.A. / Tomashevaskaya, M.K.
Solid Fuel Chem, Vol. 12, No. 1, p. 16-20, 1978

1078 111 Article, Properties

Coal minerals affect sulfur in processing
By Robinson, L.
Hydrocarbon Process, Nov. 1978, Vol. 57, Iss. 11, p. 213-216, Nov. 1978

1078 112 Book, Properties

Industrial and utility applications coal oil mixture data index

United-States Department of Energy, Washington, D.C., May 1978
Report No.: NTIS.HCP/T2637-01

1078 113 Report, Properties, Combustion

Chemical activities of alkali sulfates in hot corrosion
By Hsu, C.C. / Johnson, I. / Blander, M. Argonne National Laboratory, Argonne, Illinois

United-States Department of Energy, Washington, D.C., June 1978
Report No.: NTIS.ANL-77-84

1078 114 Article, Properties

Evaluation and selection of coals for blast furnace coke
By Kay, A.W. / Readyhough, P.J. Steel Company of Canada Limited, Hamilton, Ontario
Research and Development Department, Steel Company of Canada Ltd., Hamilton, Ontario, 1978

1078 115 Article, Properties

Carbon isotope fractionation during coal pyrolysis
By Chung, H.M. / Sackett, W.M. Texas A&M University, College-Station, Texas
Fuel, Vol. 57, Iss. 11, p 734-735, Nov. 1978

1078 116 Article, Properties

Effect of drying on the adsorptive properties of subbituminous coal
By Gorbaty, M.L. Exxon Research and Engineering Company, Linden, New-Jersey
Fuel, Vol. 57, Iss. 12, p. 796-797, Dec. 1978

1078 117 Article, Properties

Calcined coke from coal hydrogenates - Comparison with calcined petroleum coke
By Mukherjee, S.K. / Mukherjee, D.K. Central Fuel Research Institute, Dhanbad, India
Indian J. Technol., Vol.16, No. 9, p. 370-373, Sept. 1978

1078 118 Article, Properties

Markov chain analysis of a coal seam
By Chakrabarti, C. / Sanyal, S.P. Geological Survey of India, Calcutta, India
Fuel, Vol. 57, Iss. 12, p. 802-803, Dec. 1978

1078 119 Article, Properties

Application of quantitative Carbon 13 nuclear magnetic resonance spectroscopy to coal derived materials
By Ladner, W.R. / Snape, C.E. National Coal Board, Cheltenham, Gloucestershire, United-Kingdom
Fuel, Vol. 51, No. 11, p. 658-662, Nov. 1978

1078 120 Article, Properties, Liquefaction

Studies of the structure of coal and coal hydrogenation process
By Takeya, G. Hokkaido University, Sapporo, Japan

Pure Appl. Chem., Vol. 50, Iss. 9-10, p. 1099-1115, 1978

1078 121 Article, Properties

Characterization of organic acids trapped in coals
By Hayatsu, R. / Winans, R.E. / Scott, R.G. / Moore, L.P. / Studier, M.H. Argonne National Laboratory, Argonne, Illinois
Nature (London), Vol. 275, Iss. 5676, p. 116-118, Sept. 1978

1078 122 Article, Properties

The carbon 13 nuclear magnetic resonance solid state spectroscopy of various classes of coals
By Wilkie, C.A. / Haworth, D.T. Marquette University, Milwaukee, Wisconsin
J. Inorg. Nucl. Chem., Vol. 40, Iss. 12, p. 1989-1991, 1978

1078 124 Article, Properties, Combustion

Spontaneous combustion liability of sub bituminous coals: Development of a simplified test method for field lab/mine applications
By Schmeling, W.A. / King, J. / Schmidt-Collerus, J.J. University of Denver, Denver, Colorado
Analytical chemistry of liquid-fuel sources: Tar-sands, oil-shale, coal, and petroleum. Advances in chemistry series 170, p. 1-12, 1978

1078 125 Article, Properties

Analysis of five United States coals: Pyrolysis gas chromatography mass spectrometry computer and thermal gravimetry mass spectrometry computer methods
By Gallegos, E.J. Chevron Research Company, Richmond, California
Analytical chemistry of liquid-fuel sources: Tar-sands, oil-shale, coal, and petroleum. Advances in chemistry series 170, p. 13-36, 1978

1078 126 Article, Properties

A 1 H and 13 C nuclear magnetic resonance study of the organic constituents in different solvent refined coals as a function of the feed coal
By Wooton, D.L. / Coleman, W.M. / Glass, T.E. / Dorn, H.C. / Taylor, L.T. Virginia Polytechnic Institute and State University, Blacksburg, Virginia
Analytical chemistry of liquid-fuel sources: Tar-sands, oil-shale, coal, and petroleum. Advances in chemistry series, 170. p. 37-53, 1978

1078 127 Article, Properties, Liquefaction

Analysis of solvent refined coal, recycle solvents, and coal liquefaction products
By Schiller, J.E. Grand-Forks Energy Technology Center, Grand-Forks, North-Dakota
Analytical chemistry of liquid-fuel sources: Tar-sands, oil-shale, coal, and petroleum. Advances in chemistry series, 170.

p. 54-65, 1978

1078 128 Article, Properties

Structural characterization of solvent fractions from five major coal liquids by proton nuclear magnetic resonance
By Schwager, I. / Farmanian, P.A. / Yen, T.F. University of Southern California, Los-Angeles, California
Analytical chemistry of liquid-fuel sources: Tar-sands, oil-shale, coal, and petroleum. Advances in chemistry series, 170.
p. 66-77, 1978

1078 129 Article, Properties

Comparative characterization and hydro treating response of coal, shale, and petroleum liquids
By Jewitt, C.H. / Wilson, G.D. Ashland Oil Inc., Ashland, Kentucky
Analytical chemistry of liquid-fuel sources: Tar-sands, oil-shale, coal, and petroleum. Advances in chemistry series, 170.
p. 243-254, 1978

1078 130 Article, Properties, Liquefaction

Analytical characterization of solvent refined coals comparison with petroleum residua
By Callen, R.B. / Simpson, C.A. / Bendoraitis, J.G. Mobil Research and Development Corporation, Paulsboro, New-Jersey
Analytical chemistry of liquid-fuel sources: Tar-sands, oil-shale, coal, and petroleum. Advances in chemistry series, 170.
p. 307-322, 1978

1078 131 Article, Properties

Continuous coal carbonization in a pressurized travelling bed
By Chamov, A.V. / Reznik, M.G. / Slyusar, I.P. / Eliseev, O.I.
Coke Chem. (U.S.S.R), No. 1, p. 33-36, 1978

1078 132 Article, Properties

Gaseous exothermic oxidation of coal. 2. Aerial oxidation of fresh coal
By Walker, I.K. / MacKenzie, K.J. / Jackson, F.H. Department of Scientific & Industrial Research, Petone, New-Zealand
N. Z. J. Sci., Vol. 21, No. 4, p. 511-518, 1978

1078 133 Article, Properties

Thermionic emission properties of some synthetic coal slags
By Anderson, J. / Anderson, W.F. / Wilson, M. / Lapeyre, G.J. Montana State University, Bozeman, Montana
Eng. Aspects Magentohydrodyn., Vol. 17, p. C.7.1.-C.7.5., 1978

1078 134 Report, Properties, Environment

Policy alternatives for reclaiming surface mined lands
By Greenbaum, M.E. / Harvey, C.E. Northwestern University, Evanston, Illinois
Institute of Mining and Mineral Research, Lexington, Kentucky, Dec. 1978

1078 135 Report, Properties

Coal associated materials as potential non Bauxite sources of Alumina
By Winer, A.A. / Tibbetts, T.E. Canada Centre for Mineral and Energy Technology, Ottawa, Ontario
Energy Mines and Resources Canada, Ottawa, Ontario, 1978
Report No.: 2781292

1078 136 Article, Properties

Chemicals from coal
By Sinha, N.K. / Tripathi, G. Banaras Hindu University, India
Chem. Era, Vol. 14, June, 1978, p. 164-168, 1978

1078 137 Article, Properties

A nomogram for scientific and commercial evaluation of coal
By Chatterjee, D.R. / Mitra, K.K. / Sarkar, D.K. Central Fuel Research Institute, Dhanbad, India
J. of Mines, Metals & Fuels, Vol. 26, No. 11, Nov. 1978, p. 387-389, Nov. 1978

1078 138 Article, Properties

Heat of sorption in a methane coal system
By Kovaleva, I.B. / Krivitskaya, R.M. / Muchnik, S.V. / Pankrat'ev, Y.D. / Ettinger, I.L.
Solid Fuel Chemistry, Vol. 12, No. 6, p. 12-16, Nov. 1978

1078 139 Article, Properties

Griffith's cracks theory and strength of carbonaceous materials
By Kini, K.A. Central Fuel Research Institute, Dhanbad, India
J. of Mines, Metals & Fuels, Vol. 26, No. 6, June 1978, p. 230, June 1978

1078 140 Article, Properties

Influence of the geochemical environment on the quality of coals
By Sharudo, I.I. / Moskvin, V.I. / Gontsov, A.A. Donbass Scientific Research Laboratory, USSR
Solid Fuel Chemistry, Vol. 12, No. 1, 1978, p. 1-5, 1978

1078 141 Article, Properties

A cause of exothermic heat evolution in hydrogenolysis of coal
By Takekawa, T. / Makino, K. / Ouchi, K Hokkaido University, Sapporo, Japan
Fuel, Vol. 57, Dec. 1978, p. 797-798, Dec. 1978

1078 142 Article, Properties

Reproducibility of the results in investigations of carbons by pyrolitic mass spectrometry
By Zvegil'skii, D.S. Kommunarsk Mining and Metallurgical Institute, Kadievka, USSR
Solid Fuel Chemistry, Vol. 12, No. 2, 1978, p. 121-123, 1978

1078 143 Article, Properties

Some general principles of the oxidation of coal by atmospheric oxygen
By Kucher, R.V. / Butuzova, L.F. / Kompanets, V.A. / Luk'yanenko, L.V. / Degtyar, N.M.
Solid Fuel Chemistry, Vol. 12, No. 6, p. 17-22, Nov. 1978

1078 144 Article, Properties

The substance petrographic composition of the products of the enrichment of coals, and the distribution of sulfur
By Elenskii, F.Z. / Chernyshov, Y.A. / Savchuk, S.V. Zaporozh'e By-product Coke Works, Ukraine, USSR
Solid Fuel Chemistry, Vol. 12, No. 1, 1978, p. 9-15, 1978

1078 145 Article, Properties

Influence of heating on the physicochemical properties of coal graphite materials
By Kapelyanov, V.Y. Dnepropetrovsk Metallurgical Institute, USSR
Solid Fuel Chemistry, Vol. 12, No. 1, 1978, p. 59-61, 1978

1078 146 Article, Properties

Chromatographic method of determining the sorption capacity of natural coals
By Biryukova, N.R. / Yanovskii, S.M. / Ynovskaya, M.F. A. A. Skochinskii Mining Institute, USSR
Solid Fuel Chemistry, Vol. 12, No. 1, 1978, p. 29-33, 1978

1078 147 Article, Properties

Change in the properties of coal dust after an explosion
By Sergeev, V.S. / Kulish, V.I. / Ploskogolovyi, E.P. State Makeevka Scientific-Research Institute, Ukraine, USSR
Solid Fuel Chemistry, Vol. 12, No. 2, 1978, p. 65-68, 1978

1078 148 Article, Properties

Behavior of iron compounds in the thermal drying of coal and their significance in the oxidation process

By Sukhov, V.A. / Zamyslov, V.B. / Shumeiko, V.P. / Voitkovskii, Y.B. / Lukovnikov, A.F. Institute of Fossil Fuels, Moscow, USSR
Solid Fuel Chemistry, Vol. 12, No. 6, p. 23-29, Nov. 1978

1078 149 Article, Properties

Study of coal and coal products by infrared and lasar raman spectroscopy
By Srivastava, S.C. National Metallurgical Laboratory, Bihar, India
J. of Mines, Metals & Fuels, Vol. 26, No. 5, May 1978, p. 189-192, May 1978

1078 150 Article, Properties

Apparatus for the differential condensation of the vapors produced by the thermal treatment of coals
By Kekin, N.A. / Gamazina, G.A. Ukrainian Scientific Research Institute of Coal Chemistry, Ukraine, USSR
Solid Fuel Chemistry, Vol. 12, No. 1, 1978, p. 67-70, 1978

1078 151 Article, Properties

Effect of carbon monoxide on the oxidation of carbon by oxygen
By Gol'dberg, E.L. / Yavorskii, I.A. Academy of Sciences, Moscow, USSR
Solid Fuel Chemistry, Vol. 12, No. 6, p. 34-37, Nov. 1978

1078 152 Article, Properties

Study of the structure formation mechanism during briquetting
By Elishevich, A.T. Donetskugleobogashchenie Production Association, USSR
Solid Fuel Chemistry, Vol. 12, No. 6, p. 47-54, Nov. 1978

1078 153 Article, Properties

On the nature of the organic matter of sapropel from the Osinovka coalfield
By Pokrovskaya, L.S. Institute of Fossil Fuels, Moscow, USSR
Solid Fuel Chemistry, Vol. 12, No. 6, p. 55-58, Nov. 1978

1078 154 Article, Properties

Study of the composition of the acid part of refined brown coal wax
By Batukova, G.I. / Davydov, V.D. / Novakovskii, E.M. / Suchkov, V.V. / Kolodko, N.P. / Moiseeva, A.F. / Paramonova, Z.M.

Solid Fuel Chemistry, Vol. 12, No. 6, p. 62-65, Nov. 1978

1078 155 Article, Properties

Non fuel processing of coals
By Pobedonostseva, N.I. / Pobedonostseva, D.I. / Umarov, T.Z. / Shevchenko, N.M. / Zabramnyi, D.T.
Solid Fuel Chemistry, Vol. 12, No. 6, p. 78-82, Nov. 1978

1078 156 Article, Properties

Reduction of humic acid oxidates by lithium aluminum hydride in order to study their structure
By Shvets, T.V. / El'kin, Y.N. / Maksimov, O.B.
Solid Fuel Chemistry, Vol. 12, No. 6, p. 83-87, 1978

1078 157 Article, Properties, Mining

Significance of sorption studies for practical coal mining
By Vinokurova, E.B. Moscow Mining Institute, Moscow, USSR
Solid Fuel Chemistry, Vol. 12, No. 6, p. 107-113, 1978

1078 158 Article, Properties

Thermal properties of a porous filler based on powdered Ekibastuz coal rock
By Donat, F. / Itkin, Y.V. / Maslennikova, M.G. / Nekrasov, K.D. / Shpirt, M.Y. Institute of Fossil Fuels, Moscow, USSR
Solid Fuel Chemistry, Vol. 12, No. 6, p. 99-101, Nov. 1978

1078 159 Article, Properties

Study of gas sorption in coals using laser methods
By Belogurov, Y.A. / Bunin, A.V. / Voitkovskii, Y.B. / Vinokurova, E.B. Moscow Mining Institute, Moscow, USSR
Solid Fuel Chemistry, Vol. 12, No. 6, p. 95-98, Nov. 1978

1078 160 Article, Properties

Quantitative spectral determination of trace elements in coals
By Laktionova, N.V. / Egorov, A.P. / Popinako, N.V. Institute of Fossil Fuels, Moscow, USSR
Solid Fuel Chemistry, Vol. 12, No. 6, p. 91-94, Nov. 1978

1078 161 Article, Properties

Formation of the porous structure of carbonaceous materials from peat
By Drozhaline, N.D. / Rakovskii, V.E. / Rakovskiy, V.Y. / Astakhov, V.A. / Bulgakova, N.O. Peat Institute, AS-Belorussa, USSR
Solid Fuel Chem, Vol. 12, No. 3, p. 70-73, May 1978

1078 162 Article, Properties

Potentiometric investigation of the redox properties of humic acids.
By Loginov, L.F.
Solid Fuel Chem, Vol. 12, No. 3, p. 75-78, May 1978

1078 163 Article, Properties

Calculation of the yield of volatile matter by the methods of petrography
By Eremin, I.v. / Suprunenko, O.I. / Kler, D.V. / Bronovets, T.M.
Solid Fuel Chem, Vol. 12, No. 2, p. 1-5, March 1978

1078 164 Article, Properties

A study of the processes of the reduction of hematite by natural coals
By Voitkovskii, Y.B. / Kreinin, S.M. / Chizhikova, V.M. / Lebedev, V.V. / Karabasov, Y.S.
Solid Fuel Chem, Vol. 12, No. 2, p. 72-77, March 1978

1078 165 Article, Properties

The question of the ashing of coals in the determination of trace elements
By Mikhailova, A.I. / Larina, V.A. / Vlasov, N.A.
Solid Fuel Chem, Vol. 12, No. 3, p. 12-13, May 1978

1078 166 Article, Properties

The chemical activity of schungite and the products of its thermal transformation
By Kasatochkin, V.I. / Elizen, V.M. / Kudryavtsev, Y.P. Institute of Heteroorganic Compounds, AS, USSR
Solid Fuel Chem, Vol. 12, No. 2, p. 23-27, March 1978

1078 167 Article, Properties

The term humic acids
By Veski, R.E. / Fomina, A.S.
Solid Fuel Chem, Vol. 12, No. 3, p. 65-68, May 1978

1078 168 Article, Properties

The use of petrographic characteristics for predicting the physico chemical and chemical technological properties of coals
By Eremin, I.V. / Tsikarev, D.A. Institute of Combustible Minerals, Moscow, USSR
Solid Fuel Chem, Vol. 12, Iss. 3, p. 1-6, May 1978

1078 169 Article, Properties

The possibility of the use of the method of attenuated total internal reflection for obtaining infrared spectra of coals

By Bubnovskaya, L.M. / Popov, V.K. / Rusyanova, N.D.
Solid Fuel Chem, Vol. 12, Iss. 3, p. 9-11, May 1978

1078 170 Article, Properties

A review of organic sulfur analysis in coal and a new procedure
Geological Research Group, Los-Alamos, New-Mexico
Scanning Electron Micros Symp, Iss. 1, p. 93-108, 1978

1078 171 Article, Properties

SEM and EMA studies of a solvent refined coal pilot plant carbonaceous plug
By Harris, L.A. / Yust, C.S. Oak-Ridge National Laboratory, Oak-Ridge, Tennessee
Scanning Electron Micros, No. 1, p. 537-542, 1978

1078 172 Article, Properties

A mounting medium for coal particles
By Moza, A.K. / Strickler, D.W. / Austin, L.G. Pennsylvania State University, University-Park, Pennsylvania
Scanning Electron Micros, p. 289-292, 1978

1078 173 Article, Properties

Chemistry of destructive hydrogenation
By Kalechits, I.V.
Solid Fuel Chem, Vol. 12, No. 4, p. 38-47, July 1978

1078 174 Article, Properties

New information of the chemical structure of coals
By Rus'yanova, N.D. / Erkin, L.I.
Solid Fuel Chem, Vol. 12, No. 4, p. 26-31, July 1978

1078 175 Article, Properties

Influence of ALPHA naphthylamine on the oxidation of typed coal
By Kompanets, V.A. / Kucher, R.V. / Shendrik, T.G.
Solid Fuel Chem, Vol. 12, No. 3, p. 60-64, May 1978

1078 176 Article, Properties

Correlated Moessbauer SEM studies of coal mineralogy
By Lee, R.J. / Huggins, F.E. / Huffman, G.P. United-States Steel Corporation, Monroeville, Pennsylvania

Scanning Electron Microsc., No. 1, p. 561-568, Jan. 1978

1078 177 Article, Properties

Microstructure studies of chemically desulfurized coals
By Rebagay, T.V. / Shou, J.K. University of Kentucky, Lexington, Kentucky
Scannning Electron Microsc., Issue 1, p. 669-676, 1978

1078 178 Article, Properties

The change in the infrared spectrum when coal is heated in a tablet with potassium bromide
By Likhtenshtein, V.I. / Popov, V.K. / Rus'yanova, N.D.
Solid Fuel Chem, Vol. 13, No. 2, p. 64-68, 1978

1078 179 Article, Properties

Ideas concerning the chemical structure of coals
By Rus'yanova, N.D.
Solid Fuel Chem, Vol. 12, No. 6, p. 1-11, 1978

1078 180 Report, Properties

Leaching rates of coal associated metals
By Akers, D.J. West-Virginia University, Morgantown, West-Virginia
West-Virginia University, 5p., Aug. 1978
Report No.: 157

1078 181 Article, Properties

Reaction of coal with nitronium tetrafluoroborate
By Chakrabartty, S.K. / Kretschmer, H.O. / Ungarian, D.E. Alberta Research Council, Edmonton, Alberta
Prepr Pap, Am Chem Soc, Div Fuel Chem, Vol. 23, No. 4, p. 224-228, 1978

1078 182 Report, Properties, Geology

Uranium in coal and carbonaceous rocks in the United States and Canada: an annotated bibliography
By Alderman, J.K. / Grady, W.C. / Simonyi, T. / Simcoe, E.J. West-Virginia University, Morgantown, West-Virginia
West-Virginia University, Morgantown, West-Virginia, 21p., 1978
Report No.: 160

1078 183 Article, Properties, Liquefaction

The rate and the mechanism of the reactions of hydrogen sulfide with the basic minerals in coal

By Attar, A. / Dupuis, F. University of Houston, Houston, Texas
Prepr Pap, Am Chem Soc, Div Fuel Chem Vol. 23, No. 1, p. 214-227, 1978

1078 184 Article, Properties

Carbon 13 NMR studies of coals and oil shales
By Bartuska, V.J. / Maciel, G.E. / Miknis, F.P. Colorado State University, Fort-Collins, Colorado
Prepr Pap, Am Chem Soc, Div Fuel Chem, Vol. 23, No. 2, p. 19-23, 1978

1078 185 Article, Properties

A re evaluation of carbon ring structure in coal
By Scaroni, A.W. / Essenhigh, R.H. Pennsylvania State University, University-Park, Pennsylvania
Prepr Pap, Am Chem Soc, Div Fuel Chem, Vol. 23, No. 4, p. 124-131, 1978

1078 186 Conference proceedings, Properties

A discussion of some of the methods of physical characterization used for coal
By Davis, A. Pennsylvania State University, University-Park, Pennsylvania
Scientific Problems of Coal Utilization, Proceedings of a Conference at West-Virginia University, Morgantown, West-Virginia, May 23/25, 1977, p. 13-45, 1978

1078 187 Report, Properties

New extraction technique for alumina from coal ash
By Huang, W.H. Texas A&M University, College-Station, Texas
4th Int Congr. for the study of Bauxites, Alumina and Aluminum, Athens, Oct. 9-12, 1978, Vol. III, Alumina and Aluminum, p. 117-125, 1978

1078 188 Article, Properties, Liquefaction

Application of a single cell high pressure DTA technique to coal hydrogenation research
By Makino, K. / Ueda, S. / Shibaoka, M. CSIRO, Fuel Geoscience Unit, North-Ryde, Australia
Fuel, Vol. 78, No. 10, p. 655-666, Oct. 1978

1078 189 Article, Properties

Activation of carbonized granules by steam
By Ermakov, E.A. / Shenfel'd, B.E. / Lozhkin, A.F.
Solid Fuel Chem, Vol. 12, No. 2, p. 73-76, 1978

1079 0 Book, Properties

Evaluating and testing the coking properties of coal
By Zimmerman, R.E. Paul Weir Company, Chicago, Illinois
Miller Freeman Publications, Inc., San-Francisco, California, 1979

1079 1 Article, Properties

On the measurement of hardness in coal
By MacMillan, N.H. / Rickerby, D.G.
J. Mater. Sci., Vol. 14, Iss. 1, p. 242-6, 1979

1079 2 Book, Properties

Data accumulation on the methane potential of the coal beds of Colorado, Final Report
Hollis B. Fender and D. Keith Murray, Colorado Geological Survey
United-States Department of Energy, Washington, D.C., June 1979
Report No.: NTIS.HCP/T75-C-01-9003-01

1079 3 Article, Properties, Liquefaction

Determination of nitrogen and oxygen functional groups in coal derived asphaltenes
By Schwager, I. / Yen, T.F.
Anal. Chem., Vol. 51, Iss. 4, p. 569-71, 1979

1079 4 Article, Properties, Gasification

Kinetic models for pyrolysis and hydrogasification of Hanna coal
By Rai, C. / Tran, D.Q.
Fuel, Vol. 58, No. 8, Aug. 1979, p. 603-608, Aug. 1979

1079 5 Article, Properties

Hydrogen transfer catalytic activity of minerals common to coal
By Gangwer, T.E. / Prasad, H.N.
Fuel, Vol. 58, No. 8, Aug. 1979, p. 577-584, Aug. 1979

1079 6 Japanese Article, Properties

Problems of the analysis and testing of coal
By Miyazu, T.
Nenryo Kyokai-shi, Vol. 58, No. 2, Feb. 1979, p. 90-101, Feb. 1979

1079 7 Article, Properties, Gasification

Kinetic investigation of the Fischer Tropsch synthesis
By Zein-el-Deen, A. / Jacobs, J. / Baerns, M.
Ger Chem Eng, Vol. 2, No. 3, June 1979, p. 139-146, June 1979

1079 8 Article, Properties

Electron spin resonance study of coal by line and width line shape analysis
By Kwan, C.L. / Yen, T.F.
Anal Chem, Vol. 15, No. 8, July 1979, p. 1225-1229, July 1979

1079 9 Article, Properties

Coal as a C H O ternary system. 1. Geochemistry
By Stephens, J.F.
Fuel, Vol. 58, No. 7, July 1979, p. 489-494, July 1979

1079 10 Article, Properties, Liquefaction

Microscopic observations of the swelling of a high volatile bituminous coal in response to organic solvents
By Shibaoka, M. / Stephens, J.F. / Russell, N.J.
Fuel, Vol. 58, No. 7, July 1979, p. 515-522, July 1979

1079 11 Report, Properties

Analyses of tipple and delivered samples of coal collected during fiscal year 1978

United-States Department of Energy, Washington, D.C., May 1979
Report No.: NTIS.DOE/ET-0045/1

1079 12 Article, Properties

Coal analysis meets customers' needs
By Mason, R.H.
Coal Min Process, Vol. 16, No. 7, July 1979, p. 56-60, July 1979

1079 13 Article, Properties

Property data available for coal chemicals
By Kudchadker, S.A. / Kudchadker, A.P. / Wilhoit, R.C.
Hydrocarbon Process, Vol. 58, No. 1, Jan. 1979, p. 169-171, Jan. 1979

1079 14 Article, Properties, Geology

Rank and maceral effects on coal dust generation
By Baafi, E.Y. / Ramani, R.V.
Int J Rock Mech Min Sci Geomech Abstr, Vol. 16, No. 2, April 1979, p. 107-115, April 1979

1079 15 Article, Properties

Dielectric relaxations of coal and conductive impurities
By Alvarez, R. / De-Paiva, J.A.
J Geophys Res, Vol. 84, No. B6, June 1979, p. 3049-3056, June 1979

1079 16 Book, Properties, Liquefaction, Gasification

Coal Dissolution Studies: Particle size distribution in coal derived liquids as a function of degree of coal conversion
By Gilliam, T.M. / Brand, J.I. / Rodgers, B.R. Oak-Ridge National Laboratory, Oak-Ridge, Tennessee
United-States Department of Energy, Washington, D.C., May 1979
Report No.: NTIS.ORNL/TM-6681

1079 18 Book, Properties

Separation of dry crushed coals by high gradient magnetic separation
By Doulin, J.M. / Hise, E.C. / Wechsler, I. Oak-Ridge National Laboratory, Oak-Ridge, Tennessee
United-States Department of Energy, Washington, D.C., Oct. 1979
Report No.: NTIS.ORNL-5571

1079 20 Book, Properties

Reactivity of iron sulfide in sulfur dioxide atmosphere
By Tone, S. / Tseng, S,W / Wen, C.Y. Morgantown Energy Technology Center, Morgantown, West-Virginia
United-States Department of Energy, Washington, D.C., Sept. 1979
Report No.: NTIS.METC/CR-79/16

1079 21 Report, Properties

Saskatchewan coal quality factors
By Romaniuk, A.S. Canada Centre for Mineral and Energy Technology, Western Office, Calgary, Alberta
Canada Centre for Mineral and Energy Technology, Ottawa, Ontario, May 1979
Report No.: ERP/MRL 79-52(TR)

1079 22 Book, Properties, Gasification

Stability characteristics of hydrocarbon fuels from alternative sources
By Brinkman, D.W. / Whisman, M.L. / Bowden, J.N. Bartlesville Energy Technology Center, Bartlesville, Oklahoma
United-States Department of Energy, Washington, D.C., March 1979
Report No.: NTIS.BETC/RI-78/23

1079 23 , Properties, Gasification

Calcium carbide production from calcium oxide and coal or hydrocarbons in a rotating arc reactor
By Kim, C.S. / Baddour, R.F. / Howard, J.B.
Ind. Eng. Chem. Process Des. Dev., 1979, Vol. 18, p. 323-328, Nov. 1902

1079 24 Article, Properties, Liquefaction

The influence of anti solvent properties on the initial settling rate of mineral matter in solvent refined coal
By Vaidyanathan, K.R. / Henry, J.D.
Sep. Sci. Technol., 1979, Vol. 14, p. 107-140, 1979

1079 25 Article, Properties

Graphitization and sintering of coals under pressure
By Inagaki, M. / Itoh, T. / Naka, S. Toyohashi University of Technology, Toyohashi, Japan
Fuel, Vol. 58, Iss. 10, p. 741-744, Oct. 1979

1079 26 Article, Properties

Simultaneous multiwavelength detection system for liquid chromatography
By Klatt, L.N. Oak-Ridge National Laboratory, Oak-Ridge, Tennessee
J. Chromatogr. Sci., Vol. 17, Iss. 4, p. 225-235, April 1979

1079 27 Article, Properties

Evolution of hydrogen during alkylation of coal
By Carson, D. / Ignasiak, B.S. Alberta Research Council, Edmonton, Alberta
Fuel, Vol. 53, Iss. 1, p. 72-73, Jan. 1979

1079 28 Article, Properties

Field desorption mass spectrum of coal derived liquid
By Yoshida, T. / Yoshida, R. / Maekawa, Y. / Yoshida, Y. / Itagaki, Y. Government Industrial Development Laboratory, Hokkaido, Sapporo, Japan
Fuel, Vol. 58, Iss. 2, p. 153-155, Feb. 1979

1079 29 Article, Properties

Plasticity of coal studied with nuclear magnetic resonance
By Lynch, L.J. / Webster, D.S. CSIRO, Division of Textile Physics, North-Ryde, Australia
Fuel, Vol. 53, Iss. 3, p. 235-237, March 1979

1079 30 Article, Properties

Characterization of organic material in coal by proton decoupled carbon 13 nuclear magnetic resonance with magic angle spinning
By Maciel, G.E. / Bartuska, V.J. / Miknis, F.P. Colorado State University, Fort-Collins, Colorado
Fuel, Vol. 58, Iss. 5, p. 391-394, May 1979

1079 31 Article, Properties

Reporting of low rank coal analysis - the distinction between minerals and inorganics
By Kiss, L.T. / King, T.N. Herman Research Laboratory, Victoria, Australia
Fuel, Vol. 58, Iss. 7, p. 547-549, July 1979

1079 32 Article, Properties

Microbial removal of organic sulfur from coal
By Chandra, D. / Roy, P. / Mishra, A.K. / Chakrabarti, J.N. / Sengupta, B. Indian School of Mines, Dhanbad, India
Fuel, Vol. 58, Iss. 7, p. 549-550, July 1979

1079 33 Article, Properties

Estimation of sulfur content in coal from titration of calorimeter bomb washings
By Neavel, R.C. / Keller, J.E. Exxon Research and Engineering Company, Baytown, Texas
Fuel, Vol. 58, Iss. 6, p. 402-404, June 1979

1079 34 Article, Properties

13 C., 2 H., 1 H. n.m.r. and g.p.c. study of structural evolution of a sub bituminous coal during treatment with tetralin at 427 degrees celsius
By Franz, J.A. Battelle Memorial Institute, Richland, Washington
Fuel, Vol. 58, Iss. 6, p. 405-412, June 1979

1079 35 Article, Properties

Structural analysis of supercritical gas extracts of coals
By Bartle, K.D. / Ladner, W.R. / Martin, T.G. / Snape, C.E. / Williams, D.F. University of Leeds, Leeds, United-Kingdom
Fuel, Vol. 58, Iss. 6, p. 413-422, June 1979

1079 36 Article, Properties

Rate of oxidation of char and coal in relation to their tendency to self heat
By Nordon, P. / Young, B.C. / Bainbridge, N.W. CSIRO, Division of Textile Physics, North-Ryde, Australia
Fuel, Vol. 58, Iss. 6, p. 443-449, June 1979

1079 37 Article, Properties

Molecular interaction of quinoline with coal liquid fractions
By Tewari, K.C. / Wang, J. / Li, N.C. / Yeh, H.J. Duquesne University, Pittsburgh, Pennsylvania
Fuel, Vol. 58, No. 5, p. 371-374, May 1979

1079 38 Article, Properties

Pyrolysis of tetralin
By Benjamin, B.M. / Hagaman, E.W. / Raaen, V.F. / Collins, C.J. Oak-Ridge National Laboratory, Oak-Ridge, Tennessee
Fuel, Vol. 58, No. 5, p. 386-390, May 1979

1079 39 Article, Properties

Selective alkylation of acidic hydroxyl groups in coal
By Liotta, R. Exxon Research and Engineering Company, Linden, New-Jersey
Fuel, Vol. 58, No. 10, p. 724-728, Oct. 1979

1079 40 Article, Properties

Rapid measure of moisture in coal and total solids in coal slurries by low resolution proton nuclear magnetic resonance
By Robertson, S.D. / Cunliffe, F. / Fowler, C.S. Shell Research Limited, London, United-Kingdom
Fuel, Vol. 58, Iss. 11, p. 770-774, Nov. 1979

1079 41 Article, Properties

Oxidations of coal by aqueous sodium hypochlorite
Stanford Research Institute, Menlo-Park, California
Fuel, Vol. 58, No. 10, Oct. 1979, p. 698-704, Oct. 1979

1079 42 Article, Properties

Distribution of sulfur during carbonization of high sulfur coal
By Chakrawarty, P.K. / Chatterjee, A. / Prasad, H.N. Tata Iron & Steel Company, Ltd., Jamshedpur, India
J. Inst. Eng. (India) Chem. Eng. Division., Vol. 59, Pt. Ch. 3, p. 57-61, June 1979

1079 43 Article, Properties

Analysis of coal liquids by mass analyzed ion kinetic energy spectrometry
By Zakett, D. / Shaddock, V.M. / Cooks, R.G. Purdue University, West-Lafayette, Indiana
Anal. Chem., Vol. 51, No. 11, p. 1849-1852, Sept. 1979

1079 44 Article, Properties

Slurry injection atomic absorption spectrometry for analysis of whole coal
By O'Reilly, J.E. / Hicks, D.G. University of Kentucky, Lexington, Kentucky
Anal. Chem., Vol. 51, No. 12, p. 1905-1915, Oct. 1979

1079 45 Article, Properties

On the kinetics of coal oxidation
By Avison, N.L. / Winters, R.M. / Perlmutter, D.D. University of Pennsylvania, Philadelphia, Pennsylvania
AIChE Journal, Vol. 25, No. 5, p. 773-781, Sept. 1979

1079 46 Article, Properties

Application of silylation to the characterization of benzene - insoluble coal extract fractions
By Snape, C.E. / Bartle, K.D. National Coal Board, Cheltenham, Gloucestershire, United-Kingdom
Fuel, Vol. 58, Iss. 12, p. 898-900, Dec. 1979

1079 47 Article, Properties

Instrumental anticipation of defluidization of heated beds of caking coal 1 (Part II)
By Whalley, B.J. / Lau, I.T. Canada Centre for Mineral and Energy Technology, Ottawa, Ontario
Energy, Mines and Resources, Ottawa, Ontario, July 1979
Report No.: ERP/ERL 79-24 (TR)

1079 48 Article, Properties

Non destrctive solubilization of coal
By Ignasiak, B.S. / Carson, D. / Gawlak, M. Alberta Research Council, Edmonton, Alberta
Fuel, Vol. 58, Iss. 11, p. 833-834, Nov. 1979

1079 49 Article, Properties

Studies in the chemical characterization of coal: reduction
By Niemann, K. / Richter, U.D.
Fuel, Vol. 58, Iss. 11, p. 838-40, Nov. 1979

1079 50 Article, Properties

High temperature proton NMR study of coal and pitch at the early stages of carbonization
By Miyazawa, K. / Yokono, T. / Sanada, Y. Hokkaido University, Sapporo, Japan
Carbon, Vol. 17, Iss. 3, p. 223-225, 1979

1079 51 Article, Properties

Influences of metal surfaces on the adhesion of coal
By Klinzing, G.E. University of Pittsburgh, Pittsburgh, Pennsylvania
Fuel, Vol. 58, Iss. 11, p. 831-833, Nov. 1979

1079 53 Article, Properties

Electron beam ionization for coal fly ash precipitators
By Davis, R.H. / Finney, W.C. Florida State University, Tallahassee, Florida
IEEE Trans. Nucl. Sci., Vol. NS26, Iss. 1, Pt. 2, p. 1490-1492, Feb. 1979

1079 54 Article, Properties, Combustion, Liquefaction, Gasification

Use of small accelerators in coal analysis and coal slurry flow measurements
By Herzenberg, C.L. Argonne National Laboratory, Argonne, Illinois
IEEE Trans. Nucl. Sci., Vol. NS26, Iss. 1, Pt. 2, p. 1568-1573, Feb. 1979

1079 55 Article, Properties

Nitrogen removal from a coal derived liquid 1. Effect of catalyst support properties
By Sivasubramanian, R. / Crynes, B.L. Oklahoma State University, Stillwater, Oklahoma
Ind. Eng. Chem. Prod. Res. Dev., Vol. 18, No. 3, p. 179-185, Sept. 1979

1079 56 Article, Properties

Calculating heating values from elemental compositions of fossil fuels
By Ringen, S. / Lanum, J. / Miknis, F.P. Laramie Energy Research Center, Laramie, Wyoming
Fuel, Vol. 58, Iss. 1, p. 69-71, Jan. 1979

1079 57 Article, Properties

Determination of carbon and hydrogen in liquid fuels
By Watson, N.C. CSIRO, Division of Process Technology, North-Ryde, Australia
Fuel, Vol. 58, Iss. 1, p. 71-72, Jan. 1979

1079 58 Article, Properties

Spin diffusion effects in spin lattice relaxation in coals
By Yokono, T. / Miyazawa, K. / Sanada, Y. / Marsh, H. Hokkaido University, Sapporo, Japan
Fuel, Vol. 58, Iss. 12, p. 896-897, Dec. 1979

1079 59 Article, Properties

Kinetic expressions for coal char gas reactions
By Chornet, E. / Baldasano, J.M. / Tarki, H.T. University of Sherbrooke, Sherbrooke, Quebec
Fuel, Vol. 58, Iss. 5, p. 395-396, May 1979

1079 60 Article, Properties

Oxygen content of selected coals as determined by charged particle activation analysis
By Schlyer, D.J. / Ruth, T.J. / Wolf, A.P. Brookhaven National Laboratory, Upton, New-York
Fuel, Vol. 58, No. 3, p. 208-210, March 1979

1079 61 Article, Properties, Liquefaction

Mechanistic study of hydrogenation of coal. 2.
By Gun, S.R. / Sama, J.K. / Chowdhury, P.B. / Mukherjee, S.K. / Mukherjee, D.K. Central Fuel Research Institute, Dhanbad, India
Fuel, Vol. 58, No. 3, p. 176-182, March 1979

1079 62 Article, Properties, Liquefaction

Mechanistic study of hydrogenation of coal. 1.
By Gun, S.R. / Sama, J.K. / Chowdhury, P.B. / Mukherjee, S.K. / Mukherjee, D.K. Central Fuel Research Institute, Dhanbad, India
Fuel, Vol. 58, No. 3, p. 171-176, March 1979

1079 63 Article, Properties

Pyridine extracts of solid fuels
By Erbatur, G. / Gaines, A.F. / Hoscan, M.A. / Yurum, Y. / Icli, S. / Wirthlin, T. Cukurova University, Adana, Turkey
Fuel, Vol. 58, No. 2, p. 121-131, Feb. 1979

1079 64 Article, Properties, Environment

Sintering characteristics and electrical resistivity of refuse ashes
By Dalmon, J. / Raask, E. Central Electricity Research Laboratories, Leatherhead, United-Kingdom
Fuel, Vol. 58, No. 2, p. 109-112, Feb. 1979

1079 65 Article, Properties

Chemical structure of coals as indicated by reductive alkylation
By Wachowska, H. A. Mickiewicz University, Grunwaldzka, Poznan, Poland
Fuel, Vol. 58, No. 2, p. 99-104, Feb. 1979

1079 66 Article, Properties

Estimating mineral matter in coal from its major inorganic elements
By Pollack, S.S. Pittsburgh Energy Research Center, Pittsburgh, Pennsylvania
Fuel, Vol. 58, No. 1, p. 76-78, Jan. 1979

1079 67 Article, Properties

Effect of mercury on depolymerization of coal
By Yurum, Y. / Yiginsu, I. / Zumreoglu, B. Hacettepe University, Ankara, Turkey
Fuel, Vol. 58, No. 1, p. 75-76, Jan. 1979

1079 68 Article, Properties

Mineral matter as a measure of oxidation of a coking coal
By Pearson, D.E. / Kwong, J. British-Columbia Ministry of Energy, Mines and Petroleum Resources, Victoria, British-Columbia
Fuel, Vol. 58, No. 1, p. 63-66, Jan. 1979

1079 69 Article, Properties

Evaluate sulfur in coal
By Attar, A. University of Houston, Houston, Texas
Hydrocarbon Process, Vol. 58, No. 1, p. 175-179, Jan. 1979

1079 70 Article, Properties

Coal chemistry. 8. Reactions of tetralin with coal and some carbon 14 containing model compounds
By Collins, C.J. / Raaen, V.F. / Benjamin, B.M. Oak-Ridge National Laboratory, Oak-Ridge, Tennessee
Am. Chem. Soc. J., Vol. 101, Iss. 17, p. 5009-5014, March 1979

1079 71 Article, Properties

Studies in the chemical characterization of coal: reduction via solvated electrons
By Neimann, K. / Hombach, H.P. Mulheim a.d., Ruhr, Germany
Fuel, Vol. 58, No. 12, p. 853-856, Dec. 1979

1079 72 Article, Properties

Basic magnetic properties of bituminous coal
By Alexander, C.C. / Thorpe, A.N. / Senftle, F.E.
Fuel, Vol. 58, No. 12, p. 857-863, Dec. 1979

1079 73 Article, Properties

Determination of oxygen and nitrogen in coal by instrumental neutron activation analysis
By Hamrin, C.E. / Johnnes, A.H. / James, W.D. University of Kentucky, Lexington, Kentucky
Fuel, Vol. 58, No. 1, p. 48-54, Jan. 1979

1079 74 Article, Properties

Structural analysis of Na//O//H - alcohol treated coals
By Makabe, M. / Ouchi, K. Hokkaido University, Sapporo, Japan
Fuel, Vol. 58, No. 1, p. 43-47, Jan. 1979

1079 75 Article, Properties, Liquefaction

Mild oxidations of coal models
By Huntington, J.G. / Mayo, F.R. / Kirshen, N.A. Stanford Research Institute, Menlo-Park, California
Fuel, Vol. 58, No. 1, p. 31-36, Jan. 1979

1079 76 Article, Properties

Comparison of the carbon 13 N.M.R. spectra of solid coals and their liquids obtained by catalytic hydrogenation
By Zilm, K.W. / Pugmire, R.J. / Grant, D.M. University of Utah, Salt-Lake-City, Utah
Fuel, Vol. 58, No. 1, p. 11-16, Jan. 1979

1079 77 Article, Properties

Determination of the mineral matter contents of coals by low temperature ashing
By Miller, R.N. / Yarzab, R.F. / Given, P.H. Pennsylvania State University, University-Park, Pennsylvania
Fuel, Vol. 58, No. 1, p. 4-10, Jan. 1979

1079 78 Article, Properties, Exploration

Petrographic characterization of coal using automatic image analysis
By England, B.M. / Mikka, R.A. / Bagnall, E.J. / Ralph, B. Broken Hill Proprietary Company Limited, NSW, Australia
J. Microsc., Vol. 116, Iss. 3, p. 329-336, Aug. 1979

1079 79 Article, Properties

Electon nuclear double resonance signals from three ingredients of coal
By Miyagawa, I. / Alexander, C.C. University of Alabama, University, Alabama
Nature, Vol. 278, Iss. 5699, p. 40-41, KEYWORDS = sedimentary rocks | organic-residues | bituminous coal | chemical properties | nuclear-magnetic-resonance | spectra | EPR spectra | chemical composition | vitrain | clarain | fusain | Alabama | United-States | electron-nuclear-double-resonance | techniques | signal analysis | endor spectra | spectral

analysis | deposits, March 1979

1079 80 Article, Properties

Metallurgical cokes from oxidized highly caking coals
By Ignasiak, B.S. / Carson, D. / Jadernik, P. / Berkowitz, N. Alberta Research Council, Edmonton, Alberta
CIM Bull., Vol. 72, No. 803, p. 154-158, March 1979

1079 81 Article, Properties

X ray radiography of coal
By Vinopal, R. West-Virginia State Geological Survey, Morgantown, West-Virginia
J. Sediment. Petrol., Vol. 49, Iss. 2, p. 483-486, June 1979

1079 82 Article, Properties

Diffusion and adsorption in microporous solids: Measurement of effective diffusivities in coal
By Debelak, K.A. / Schrodt, J.T. University of Kentucky, Lexington, Kentucky
J. Colloid Interface Sci., Vol. 70, Iss. 1, p. 67-73, June 1979

1079 83 Article, Properties

Response correlation of low molecular weight sulfur compounds using a novel flame photometric detector
By Gangwal, S.K. / Wagoner, D.E. Research Triangle Institute, Research-Triangle-Park, North-Carolina
J. Chromatogr. Sci., Vol. 17, Iss. 4, p. 196-201, 1979

1079 84 Article, Properties

Preferential adsorption of methane over hydrogen on certain coals
By Yang, R.T. / Liu, R.T. State University of New-York, Amherst, New-York
Ind. Eng. Chem. Fundam., Vol. 18, Iss. 3, p. 299-300, 1979

1079 85 Article, Properties

Measurement of specific energy, ash and moisture in bulk coal samples by a combined neutron and gamma ray method
By Sowerby, B.D. Australian Atomic Energy Commission, New-South-Wales, Australia
Nucl. Instrum. Methods, Vol. 160, No. 1, p. 173-182, March 1979

1079 86 Article, Properties

Recent advances in the analysis of coal derived products
By Bartle, K.D. / Collin, G. / Stadelhofer, J.W. / Zander, M. University of Leeds, Leeds, United-Kingdom
J. Chem. Technol. Biotechnol., Vol. 29, No. 9, p. 531-551, Sept. 1979

1079 87 Article, Properties, Liquefaction

Study of solvent refined coal by elevated temperature carbon 13 Fourier transform nuclear magnetic resonance spectrometry
By Dorn, H.C. / Taylor, L.T. / Glass, T.E. Virginia Polytechnic Institute and State University, Blacksburg, Virginia
Anal. Chem., Vol. 51, No. 7, p. 947-951, June 1979

1079 88 Article, Properties

Paraffinic hydrocarbons from supercritical gas extracts of coal as organic geochemical markers
By Bartle, K.D. / Jones, D.W. / Pakdel, H. / Snape, C.E. / Calimli, A. / Olcay, A. / Tugrul, T. University of Leeds, Leeds, United-Kingdom
Nature, (London), Vol. 277, Iss. 5694, p. 284-287, Jan. 1979

1079 89 Article, Properties

Incorporation of elemental sulfur in coal as organic sulfur
By Casagrande, D.J. / Ng, L. Governors State University, Park-Forest-South, Illinois
Nature (London), Vol. 282, Iss. 5739, p. 598-599, Dec. 1979

1079 90 Article, Properties

Hydrogen sulfide incorporation in coal precursors: Origins of organic sulfur in coal
By Casagrande, D.J. / Idowu, G. / Friedman, A. / Rickert, P. / Siefert, K. / Schlenz, D. Governors State University, Park-Forest-South, Illinois
Nature (London), Vol. 282, Iss. 5739, p. 599-600, Dec. 1979

1079 91 Article, Properties

Effects of organic and inorganic binding on the volatilization of trace elements during coal pyrolysis
By Ting, B.T. / Manahan, S.E. University of Missouri-Columbia, Columbia, Missouri
Environ. Sci. Technol., Vol. 13, Iss. 12, p. 1537-1540, Dec. 1979

1079 92 Article, Properties, Combustion

On the radioactivity of fly ashes from coal power plants
By Papastefanou, C. / Charalambous, S. Aristotle University, Thessaloniki, Greece
Z. Naturforsch., A, Vol. 4A, Iss. 5, p. 533-537, 1979

1079 93 Article, Properties

On auger electron spectroscopic measurements of zinc chloride coal interation
By Parks, G.D. Phillips Petroleum Company, Bartlesville, Oklahoma

J. Electron Spectrosc. Relat. Phenom., Vol. 16, Iss. 1-2, p. 119-121, 1979

1079 94 Article, Properties

Solid and gaseous fuels
By Hattman, E.A. / McKinstry, W.E. / Schultz, H. United-States Department of Energy, Pittsburgh, Pennsylvania
Anal. Chem., Vol. 51, No. 5, p. 135R-144R, April 1979

1079 95 Article, Properties

Metallurgical coal
By Morse, T.S. Texas A&M University, College-Station, Texas
Tech. Bull. - Tex. Eng. Exp. Stn., Iss. 79-3, p. 29-38, 1979

1079 96 Article, Properties

Hydroxyl contents of coals: New data and statistical analyses
By Yarzab, R.F. / Abdel-Baset, Z. / Given, P.H. Pennsylvania State University, University-Park, Pennsylvania
Geochim. Cosmochim. Acta, Vol. 43, Iss. 3, p. 281-287, 1979

1079 97 Article, Properties, Liquefaction

Application of fourier transform infrared spectroscopy to the characterization of fractionated coal liquids
By Painter, P.C. / Coleman, M.M. Pennsylvania State University, University-Park, Pennsylvania
Fuel, Vol. 58, No. 4, p. 301-308, April 1979

1079 98 Article, Properties, Liquefaction

Study of nickel molybdate coal hydrogenation catalysts using model feedstocks
By Badilla-Ohlbaum, R. / Pratt, K.C. / Trimm, D.L. Imperial College, London, United-Kingdom
Fuel, Vol. 58, No. 4, p. 309-314, April 1979

1079 99 Article, Properties, Liquefaction

Evaluation of solvents for carbon 13 n.m.r. analysis of solvent refined coals
By Saito, K. / Baltisberger, R.J. / Klabunde, K.J. / Stenberg, V.I. / Woolsey, N.F. University of North-Dakota, Grand-Forks, North-Dakota
Fuel, Vol. 58, Iss. 4, p. 315-317, April 1979

1079 100 Article, Properties

The reaction of coal with ferric chloride
By Beall, H. Worcester Polytechnic Institute, Worcester, Massachusetts

Fuel, Vol. 58, Iss. 4, p. 319, April 1979

1079 101 Article, Properties

Analysis of organic nitrogen compounds using paired ion chromatography. Applications to the analysis of coal derived liquids
By Holy, N.L. / Lin, T.Y. Western-Kentucky University, Bowling-Green, Kentucky
J. Liq. Chromatogr., Vol. 2, No. 5, p. 687-695, 1979

1079 102. Article, Properties, Liquefaction

Investigation of retrogressive reactions leading to the carbonization of solvent refined coal
By Painter, P.C. / Yamada, Y. / Jenkins, R.G. / Coleman, M.M. / Walker, P.L. Pennsylvania State University, University-Park, Pennsylvania
Fuel, Vol. 5, No. 4, p. 293-297, April 1979

1079 103 Article, Properties

Transmitted near infrared microscopy of coal
By Harris, L.A. / Yust, C.S. Oak-Ridge National Laboratory, Oak-Ridge, Tennessee
Fuel, Vol. 58, No. 4, p. 253-256, April 1979

1079 104 Article, Properties

Lignin like polymers in coals
By Hayatsu, R. / Winans, R.E. / McBeth, R.L. / Scott, R.G. / Moore, L.P. / Studier, M.H. Argonne National Laboratory, Argonne, Illinois
Nature, Vol. 278, Iss. 5699, p. 41-43, March 1979

1079 105 Article, Properties, Combustion

The use of gravity fractionation techniques for assessing slagging and fouling potential of coal ash
By Borio, R.W. / Narciso, R.R. Combustion Engineering, Inc., Windsor, Connecticut
J. Eng. Power, Vol. 101, No. 4, p. 500-505, Oct. 1979

1079 106 Article, Properties

Filtration studies with neutron activated coal fly ash
By Fisher, G.L. / Silberman, D. / Prentice, B.A. / Heft, R.E. / Ondov, J.M. University of California, Davis, California
Environ. Sci. Technol., Vol. 133, No. 6, p. 689-693, June 1979

1079 107 Report, Properties

Analysis directory of Canadian commercial coals. Supplement No. 3

By Tibbetts, T.E. / Montgomery, W.J. / Faurschou, D.K. Canada Centre for Mineral and Energy Technology, Ottawa, Ontario
Department of Energy, Mines and Resources, Ottawa, Ontario, 1977
Report No.: DEMR.2787852

1079 108 Article, Properties

Solving problems in a chemical plant with infrared spectrometry
By Le-Roux, J.H. Sasol One (Proprietary) Limited, Sasolburg, South-Africa
Pulse (Kloof, South-Africa), Jan. 1979, p. 14-17, Jan. 1979

1079 109 Article, Properties

Room temperature dissolution of coal fly ash for trace metal analysis by atomic absorption spectrometry
By Silberman, D. / Fisher, G.L. University of California, Davis, California
Analytica Chimica Acta, Vol. 106, Issn. 2, p.299-307, April 1979

1079 110 Report, Properties, Liquefaction

Coal structure and coal liquefaction, Final report, May 1979
By Deno, N.C. Pennsylvania State University, University-Park, Pennsylvania
Electric Power Research Institute, Palo-Alto, California, May 1979
Report No.: EPRI.AF-960-779-16

1079 111 Article, Properties

Products of carbonization of coal in relation to certain structural parameters - a status report
By Nath, K.C. / Raja, K. Central Fuel Research Institute, Dhanbad, India
J. of Mines, Metals & Fuels, Vol. 27, No. 2, 1979, p. 52-55, 1979

1079 112 Article, Properties

Analysis of heavy distillates, residues, and crudes by liquid and supercritical fluid chromatographic.techniques, supercritical fluid chromatography
By Gouw, T.H. / Jentoft, R.E. Chevron Research Company, Richmond, California
Chromatogr. Sci., Vol. 11, Iss: Chromatogr. Pet. Anal., 1979, p. 313-327, 1979

1079 113 German Article, Properties

Preparation of microsections and the structure of synthetic coal
By Weidmann, E. / Kopp, W.U. K and B Grubbs Instrument, Dusseldorf, Germany
Praktische Metallographie, Vol. 16, No. 8, Aug. 1979, p. 375-386, Aug. 1979

1079 115 Article, Properties

Pyrolysis studies on model aromatic sulfur compounds
By Greinke, R.A. / Lewis, I.C. Union Carbide Corporation, Cleveland, Ohio
Carbon, Vol. 17, No. 6, p. 471-477, 1979

1079 116 Article, Properties

Assessment of Mont Joli coal
By Montgomery, W.J. Canada Centre for Mineral and Energy Technology, Ottawa, Ontario
Energy, Mines and Resources, Ottawa, Ontario, Aug. 1979
Report No.: ERP/ERL 79-41 (TR)

1079 117 Article, Properties

The identification of magnesite from pyrite in coal by DTA
By Warne, S.S. University of Newcastle, Newcastle, Australia
J. Inst. Energy, Vol. 52, No. 410, 1979, p. 21-22, 1979

1079 118 Article, Properties, Liquefaction, Beneficiation

Behavior of liquefied coal in filtration
By Briggs, D.E. / Addington, D.V. / Ho, B. / McKeen, J.A. / Stirling, J.A. University of Michigan, Ann-Arbor, Michigan
Coal Process. Technol., Vol. 5, 1979, p. 52-59, 1979

1079 119 Article, Properties, Combustion

Polynuclear aromatic hydrocarbons associated with coal combustion
By Sucre, L. / Jennings, W. / Fisher, G.L. / Raabe, O.G. University of California, Davis, California
Proc. 9th Materials Research Symposium, Gaithersburg, Maryland, April 1978, United-States National Bureau of Standards, Special Publication, Vol. 519, April 1979, p. 109-120, April 1979

1079 120 Article, Properties, Liquefaction

Activity tests of various catalysts for hydrocracking of coals by means of high pressure differential thermal analysis
By Tanabe, K. / Saskki, H. / Hattari, H. / Ouchi, K. / Makino, K. Hokkaido University, Sapporo, Japan
Fuel Processing Technology, Vol. 2, No. 4, p. 253-259, 1979

1079 121 Article, Properties

Quantitative 13 C n.m.r. spectroscopy of a coal derived oil and the assignment of chemical shifts
By Maekawa, Y. / Yoshida, T. / Yoshida, Y. Hokkaido University, Sapporo, Japan
Fuel, Vol. 58, Iss. 12, p. 864-872, Dec. 1979

1079 122 Article, Properties

The rate and the fundamental mechanisms of the reaction of hydrogen sulfide with the basic minerals in coal
By Attar, A. / Dupuis, F. University of Houston, Houston, Texas
Ind. Eng. Chem. Process Des. Dev., Vol. 18, No.4, p. 607-618, 1979

1079 123 Article, Properties, Liquefaction

Influence of hydrogen bonding on the viscosity of coal liquids
By Tewari, K.C. / Hara, T. / Young, L.S. / Li, N.C. Duquesne University, Pittsburgh, Pennsylvania
Fuel Process. Technol., Vol. 2, No.4, p. 303-311, 1979

1079 124 Article, Properties

Catalysis of hydrogen transfer in a tetralin coal system
By Tsai, M.C. / Weller, S.W. State University of New-York, Amherst, New-York
Fuel Processing Technology, Vol. 2, No. 4, p. 313-316, 1979

1079 125 Article, Properties, Liquefaction

Advances in Fischer Tropsch chemistry
By Ceasar, P.D. / Brennan, J.A. / Garwood, W.E. Mobil Research and Development Corporation, Paulsboro, New-Jersey
Journal of Catalysis, Vol. 56, No. 2, p. 274-278, 1979

1079 126 Article, Properties, Liquefaction

The thermodynamics of anthracene hydrocracking
By Cowley, S.W. / Wiser, W.H. University of Utah, Salt-Lake-City, Utah
Fuel Process. Technol., Vol. 2, No. 4, p. 317-321, 1979

1079 127 Article, Properties

The change in the heat capacity and hardness of hard coal cokes on calcination
By Agroskin, A.A. / Gleibman, V.B. / Soldatenko, E.M. Rostov State University, Rostov-on-Don, USSR
Solid Fuel Chem. Vol. 13, No. 2, p. 8-10, March 1979

1079 128 Article, Properties, Liquefaction

Catalytic hydrotreating of 1 methylnaphthalene as a screening test
By Brammer, S.T. / Weller, S.W. State University of New-York, Buffalo, New-York
Fuel Process. Technol., Vol. 2, No. 2, p. 155-159, 1979

1079 129 Article, Properties

Reaction mechanism of alkali alcohol treatment of coal
By Makabe, M. / Ouchi, K. Hokkaido University, Sapporo, Japan
Fuel Process Technol., Vol. 2, No. 2, p. 131-41, 1979

1079 130 Article, Properties, Liquefaction

Size exclusion chromatography for the separation of whole coal liquids
By Hausler, D.W. / Hellgeth, J.S. / McNair, H.M. / Taylor, L.T. Virginia Polytechnic Institute and State University, Blacksburg, Virginia
J. Chromatogr. Sci., Vol. 17, Iss. 11, p. 617-623., Nov. 1979

1079 131 Article, Properties, Environment

Characterization of organics in aqueous effluents of coal conversion processes
By Pitt, W.W. / Jolley, R.L. / Jones, G. Oak-Ridge National Laboratory, Oak-Ridge, Tennessee
Environment International, Vol. 2, Iss. 3, p. 167-171, 1979

1079 132 Article, Properties

Determining the nitrogen content in nitride containing materials
By Novidova, N.N. / Sin'kova, L.A. / Shpirt, M.Y. Institute of Fossil Fuels, Moscow, USSR
Solid Fuel Chemistry, Vol. 13, No. 1, p. 128-130, Jan. 1979

1079 133 Article, Properties, Combustion

Formation of silicon monoxide during processing of carbonaceous rock from the Ekibastuz coal fields in a plasma
By Krukovskii, V.K. / Lebedev, V.V. / Kolobova, E.A. / Rubinchik, V.B. Institute of Fossil Fuels, Moscow, USSR
Solid Fuel Chemistry, Vol. 13, No. 1, p. 116-119, Jan. 1979

1079 134 Article, Properties

Correlation between the content of volatile matter and mineral matter in hard coals
By Scholz, A. Ruhrkohle AG, Essen, Germany
Fuel, Vol. 59, No. 3, p. 197-200, March 1979

1079 135 Article, Properties, Combustion

Analysis for sulphur in coal ash
By Botto, R.I. / White, B.H. / Karchmer, J.H. Exxon Research and Engineering Company, Baytown, Texas
Fuel, Vol. 59, No. 3, p. 157-160, March 1979

1079 136 Article, Properties, Combustion

Studies of spontaneous combustion in beds of activated carbon
By Hardman, J.S. / Street, P.J. / Twamley, C.S. Portsmouth Polytechnic, Hampshire, United-Kingdom
Fuel, Vol. 59, No. 3, p. 151-156, March 1979

1079 137 Article, Properties

Rheology of very concentrated coal suspensions
By Castillo, C. / Williams, M.C. University of California, Berkeley, California
Chem. Eng. Commun. Vol. 3, No. 6, p. 529-545, March 1979

1079 138 Article, Properties

Investigation of the structure of Fischer Tropsch oxidized waxes by means of x ray diffraction, nuclear magnetic resonance and infrared spectroscopy
By Le-Roux, J.H. Sasol One (Proprietary) Limited, Sasolburg, South-Africa
S. Afr. J. Sci., Vol. 75, No. 8, p. 356-361, Aug. 1979

1079 139 Article, Properties

Bitumous coal extraction in terms of electron donor and acceptor interactions in the solvent/coal system
By Marzec, A. / Juzwa, M. / Betlej, K. / Sobkowiak, M. Polish Academy of Sciences, Gliwice, Poland
Fuel Process. Technol., Vol. 2, No. 1, p. 35-44, Feb. 1979

1079 140 Article, Properties

The effects of impregnation of coal by alkali salts upon carbonization properties
By Marsh, H. / Walker, P.L. University of Newcastle-Upon-Tyne, Newcastle-Upon-Tyne, United-Kingdom
Fuel Process. Technol., Vol. 2, No. 1, p. 61-75, Feb. 1979

1079 141 Article, Properties

An improved method of digestion for the determination of nitrogen in coals
By Banerjee, D. / Chakraborty, A.K. / Yadav, R.A.
J. Mines, Met. Fuels (Calcutta), Vol. 27, No. 3, p. 86-87, March 1979

1079 142 Article, Properties

Relationship between the physico chemical properties of coal vitrinites and the adsorption capacity and flotability of the coal
By Petukhov, V.N.
Solid Fuel Chem, Vol. 13, No. 1, p. 7-13, Jan. 1979

1079 143 Article, Properties

On the problem of the structural parameters of coals
By Belyi, A.A. / Voitkovskii, Y.B. Moscow Mining Institute, Moscow, USSR
Solid Fuel Chem, Vol. 13, No. 1, p. 21-25, Jan. 1979

1079 144 Article, Properties

Mass spectrometry study of the gaseous products of coal desorption
By Vinokurova, E.B. / Dmitriev, I.A. Moscow Mining Institute, Moscow, USSR
Solid Fuel Chem, Vol. 13, No. 1, p. 26-28, Jan. 1979

1079 145 Article, Properties

Chromatographic determination of the coefficients of diffusion of oxygen into coal pores
By Einer, F.F. / Shtukarina, S.E. / Al'perovits, V.Y. / Koshovskii, B.I.
Solid Fuel Chem, Vol. 13, No. 1, p. 21-23, Jan. 1979

1079 146 Article, Properties

Comparative characteristics of thermographites
By Gilyazov, U.S.
Solid Fuel Chem, Vol. 13, No. 2, p. 85-88, March 1979

1079 147 Article, Properties

Determination by the chromato mass spectrometic method of the individual compositions of the water soluble acids obtained by oxidizing coals
By Gartsman, B.B. / Rumyantseva, Z.A. / Grishin, N.N. / Zaikin, V.G.
Solid Fuel Chem, Vol. 13, No. 2, p. 92-97, March 1980

1079 148 Article, Properties

Question of the chemical structure of hard coals
By Astakhov, A.V. / Belyi, A.A. / Voitkovskii, Y.B. / Tsfasman, A.B. / Utkin, A.S. Moscow Mining Institute, Moscow, USSR
Solid Fuel Chem, Vol. 13, No. 2, p. 44-49, March 1979

1079 149 Article, Properties

Study of the microcomponents of the vitrinite and fusinite groups of Donets coals by the derivatographic method
By Butuzova, L.F. / Kucher, R.V.
Solid Fuel Chem, Vol. 13, No. 2, p. 39-43, March 1979

1079 150 Article, Properties

Statistical methods of investigating the coal substance, graphical statistical methods of determining the structural group composition of coal products
By Turenko, F.P.
Solid Fuel Chem, Vol. 13, No. 2, p. 28-32, March 1979

1079 151 Article, Properties

Electrochemical aspects of the interaction of coal with carbonaceous rocks in the auto oxidation processes
By Aleksandrov, I.V. / Gavrilov, Y.V. / Kamneva, A.I. D.I. Mendeleev Moscow Institute of Chemical Technology, Moscow, USSR
Solid Fuel Chem, Vol. 13, No. 2, p. 11-15, March 1979

1079 152 Article, Properties

Adsorption of electrolytes from aqueous solutions by coals
By Zubkova, Y.N. / Basenkova, V.L. / Kucher, R.V. Donets State University, Donets, USSR
Solid Fuel Chem, Vol. 13, No. 1, p. 24-28, Jan. 1979

1079 153 Article, Properties

Selection of coals for coke making
By Robinson, J.W. United-States Steel Corporation, Monroeville, Pennsylvania
Coal Tech (Houston), Vol. 2, No. 4, p. 129-164, April 1979

1079 154 Article, Properties

Lignite substituted phenolic cation exchangers
By Sarma, N.L. / Vasudevan, P. Indian Institute of Technology, New-Delhi, India
Indian J of Tech, Vol. 17, No. 12, p. 450-452, Dec. 1979

1079 155 Article, Properties, Beneficiation

Production of alumina concentrates from kaolinite containing coal wastes
By Kost, L.A. / Novikova, H.N. / Sin'kova, L.A. / Skripchenko, G.B. / Cherninskaya, K.T. / Shpirt, M.Ya.
Solid Fuel Chem, Vol. 13, No. 3, p. 75-81, 1979

1079 156 Article, Properties

Study of coal and nonvolatile mobile liquid products of its thermal transformations
By Bronshtein, AP. / Bulashev, V.M. / Govina, A.S. / Makarov, G.N. / Nikolashin, A.V. Institute of Chemical Technology, Moscow, USSR
Solid Fuel Chem, Vol. 13, No. 3, p. 54-61, 1979

1079 157 Article, Properties

Study of the influence of the pH of the medium and of the Fe//2 and Fe//3 and system on the interaction of coal and carbonaceous argillite with solutions
By Aleksandrov, I.V. / Buzanov, I.A. / Gavrilov, Y.V. / Kamneva, A.I. Institute of Chemical Technology, Moscow, USSR
Solid Fuel Chem, Vol. 13, No. 3, p 48-53, 1979

1079 158 Article, Properties

A method of measuring the ash content of coal in moving wagons
By Wormald, M.R. / Clayton, C.G. / Boyce, I.S. / Mortimer, D. Industrial Physics Group, Oxon, United-Kingdom
International J. of Appl. Radiat. Isotopes, Vol. 30, No. 5, p. 297-314, May 1979

1079 159 Article, Properties, Geology

Petrographic characterization of the carboniferous coals of the Lvov Volyn basin relating to different phases of development of the paleo peat bed
By Vyrvich, G.P. / Lapo, A.V.
Solid Fuel Chem, Vol. 13, No. 4, p. 48-56, 1979

1079 160 Article, Properties

Pulse method of determining the reactivity of carbonaceous materials with respect to steam
By Akhmetov, S.A. / Zhirnov, B.S. / Khaziev, F.M.
Solid Fuel Chem, Vol. 13, No. 4, p. 97-99, 1979

1079 161 Article, Properties

Study of the alpha - naphthylamine - inhibited oxidation of hard coal
By Shendrik, T.G. / Popova, T.V. / Kompanets, V.A. / Kucher, R.V.
Solid Fuel Chem, Vol. 13, No. 5, p. 8-12, 1979

1079 162 Article, Properties

Production of coke from charges with the participation of noncaking and weakly caking coals
By Mel'nichuk, A.Y. / Khegai, L.U. / Muzychuk, V.D. / Dobrovinskii, G.B.
Solid Fuel Chem, Vol. 13, No. 5, p. 45-49, 1979

1079 163 Article, Properties

Use of interconnected indices of the properties of charges for predicting the quality of coke.
By Barskii, V.D. / Indenbaum, V.N. / Mochalova, R.V.

Solid Fuel Chem, Vol. 13, No. 4, p. 13-16, 1979

1079 164 Article, Properties

Binding properties of pitch from shale carbonization oil
By Ruschev, D.D. / Makarov, G.N. / Bekyarova, E.I. / Shopov, G.K. Institute of Chemical Technology, Warsaw, Poland
Solid Fuel Chem, Vol. 13, No. 5, p. 50-52, 1979

1079 165 Article, Properties, Beneficiation

Separation of brown coal bitumens by continuous countercurrent liquid extraction
By Zyryanova, E.V. / Kostyuk, V.A. / Rode, V.V.
Solid Fuel Chem, Vol. 13, No. 3, p. 43-47, 1979

1079 166 Article, Properties

Ion exchanged zeolite X catalysts in residuum hydrocracking
By Choudhary, N. / Saraf, D.N. Indian Institute of Technology, Kharagpur, India
Indian Chem Eng, Vol. 21, No. 2, p. 30-37, 1979

1079 167 Article, Properties

Changes in the sorption properties of coal and cokes due to storage in ambient air
By Youssef, A.M. / El-Wakil, A.M. Mansoura University, Mansoura, Egypt
Surf Tech, Vol. 10, No. 4, p. 303-309, April 1980

1079 168 Article, Properties

Ultravitrinitic coals of Chukotka
By Lapo, A.V. / Letushova, I.A.
Solid Fuel Chem, Vol. 13, No. 2, p. 33-38, 1979

1079 169 Article, Properties, Gasification

Wettability and corrosion of MHD ceramics by rosebud coal slag
By Guidotti, R. / Bentsen, L. / Rasmussen, J. Montana Energy MHD Research and Development Institute Inc., Butte, Montana
Eng Aspects Magnetohydrodyn, Vol. 18, p. C/5/1 - C/5/6, 1979

1079 170 Article, Properties, Beneficiation

Sludge formation as a function of coal rank
By Samoilik, G.V. / Karmazin, V.I.

Coke Chem, No. 11, p. 16-17, 1979

1079 171 Article, Properties, Gasification

A study of the properties of plastic molded coal
By Goncharov, V.F. / Fedorkov, A.L. / Sidogin, V.P. / Kovalenko, V.P.
Coke Chem, NO. 11, P. 18-21, 1979

1079 172 Article, Properties

Solvent regeneration in production of individual compounds from coal tar
By Gurevich, B.S. / Sizova, E.M.
Coke Chem, No. 10, p. 57-59, 1979

1079 173 Article, Properties

Radioisotope methods and instruments for monitoring the ash of coals
By Onishchenko, A.M. / Grabov, P.I.
Coke Chem, No. 10, p. 8-27, 1979

1079 174 Article, Properties

Scanning electron microscopy study of the solubilization of coal under mild conditions
By Shinn, J.H. / Vermeulen, T. University of California, Berkeley, California
Scanning Electron Microscopy, Issue 1, p. 487-494, 1979

1079 175 Article, Properties

Certain problems of methodology and experimental techniques for analysis of coal tar extracts
By Ulanovskii, M.L. / Voznyi, G.F. / Shmal'ko, V.M.
Coke Chem, No. 1, p. 49-54, 1979

1079 176 Article, Properties

Evaluation of the use of indirect tensile test results for characterization of asphalt emulsion treated bases
By Mamlouk, M.S. / Wood, L.E. Cairo University, Cairo, Egypt
Transp. Tes. Rec., Vol. 733, p. 99-105, 1979

1079 177 Article, Properties

Inorganic element analysis of coal particles using computer evaluation of scanning electron microscopy images
By Moza, A.K. / Austin, L.G. / Johnson, G.G. Pennsylvania State University, University-Park, Pennsylvania
Scanning Electron Microsc., Issue 1, p. 473-476, 1979

1079 178 Article, Properties

Individual composition of the water soluble polycarboxylic acids obtained by the oxidation of humic coals
By Rumyantseva, Z.A. / Gartsman, B.B. / Grishin, N.N.
Solid Fuel Chem, Vol. 13, No. 3, p. 114-118, 1979

1079 179 Article, Properties

A mathetical model of the anomalous oxidation of graphite at 1 300 2 700 degrees C
By Sergeev, V.M. / Bovina, T.A.
Solid Fuel Chem, Vol. 13, No. 3, p. 103-109, 1979

1079 180 Article, Properties

An investigation of the sorption of water vapor by carbonaceous adsorbents
By Savel'ev, L.N.
Solid Fuel Chem, Vol. 13, No. 3, p. 95-102, 1979

1079 181 Article, Properties

The dependence of the cakeability and cokability indices of low rank coals of the Donetsk, and Pechora Basins and the deposits of Transbaikalia on their chemical and petrographic characteristics
By Ulanov, N.N.
Solid Fuel Chem, Vol. 13, No. 2, p. 59-63, 1979

1079 182 Article, Properties

The nonfuel utilization of coals
By Korbut, Y. / Tokach, P.
Solid Fuel Chem, Vol. 13, No. 2, p. 102-108, 1979

1079 183 Article, Properties

The influence of some characteristics of hard coal pitches on the properties of compositions
By Lapina, N.A. / Lukina, E.Y.
Solid Fuel Chem, Vol. 13, No. 2, p. 128-131, 1979

1079 184 Article, Properties

The determination of the degree of reduction of hard coals
By Lifshits, M.M.
Solid Fuel Chem, Vol. 13, No. 3, p. 1-6, 1979

1079 185 Article, Properties

The nature of the organomineral bonds in the products of the autooxidation of the brown coal of the Kansk Achinsk Basin
By Beilina, N.Y. / Gainullina, G.E. / Aleksandrov, I.V. / Kamneva, A.I.
Solid Fuel Chem, Vol. 13, No. 3, p. 7-10, 1979

1079 186 Article, Properties

The thermal degradation of petrographically inhomogeneous coals of the Karaganda Basin
By Glushchenko, I.M. / Biryukov, Y.V. / Yurina, L.V. / D'yachenko, Y.V.
Solid Fuel Chem, Vol. 13, No. 3, p. 11-14, 1979

1079 187 Article, Properties

Use of derivatography for evaluating the activity in relation to atmospheric oxygen of a brown coal and the products of its processing
By Smutkina, Z.S. / Frolova, N.V. / Dobrovol'skii, N.N. / Skripchenko, G.B.
Solid Fuel Chem, Vol. 3, No. 3, p. 15-18, 1979

1079 188 Article, Properties

A study of the chemical composition of buried high moor and transitional peats
By Pigulevskaya, L.V. / Khoruzhik, A.V. / Rakovskii, V.E.
Solid Fuel Chem, Vol. 13, No. 5, p. 39-44, 1979

1079 189 Article, Properties

An investigation of the thermal destruction of cottongrass peat in the presence of orthophosphoric acid
By Makeeva, G.P. / Mazina, O.I. / Zhukov, V.K. / Rakovskii, V.E.
Solid Fuel Chem, Vol. 13, No. 6, p. 81-84, 1979

1079 190 Report, Properties

Carbonization behavior of coal briquettes
By Okuhara, T. / Nakama, H. / Miura, Y. / Sakurai, S. Nippon Steel Corporation, Kitakyushu, Japan
Ext. Abstr. Program-Bienn. Conf. Carbon, p. 357-358, 1979

1079 191 Article, Properties

Coal of the Khabarovsk deposit as a raw material for the isolation of waxes and resins
By Zharova, M.N. / Pokrovskaya, L.S. / Lukicheva, V.. / Dubrova, S.N. / Karnaeva, A.V. / Popova, V.P.
Solid Fuel Chem., Vol. 13, Iss. 4, p. 83-87, 1979

1079 192 Article, Properties

Comparative investigations of synthetic and natural graphites
By Gilyazov, U.S. / Samoilov, V.S.
Solid Fuel Chem., Vol. 13, No. 4, p. 128-132, 1979

1079 193 Article, Properties

Influence of some factors on the yield of coke from pitch coke compositions
By Petrov, N.V. / Syskov, K.I. / Vinogradov, S.V. / Tomazius, M. / Lapina, N.A.
Solid Fuel Chem, Vol. 13, No. 6, p. 15-18, 1979

1079 194 Article, Properties, Liquefaction

Influence of features in the structure of coals on their behaviour during degradation
By Grigor'eva, E.A. / Bakirova, E.V. / Lesnikova, E.B. / Larina, N.K. / Zharova, M.N. / Dzhalyabova, L.V.
Solid Fuel Chem, Vol. 13, No. 3, p. 30-34, 1979

1079 195 Article, Properties, Geology

Deduction of the structure of brown coal by reaction with phenol
By Hooper, R.J. / Evans, D.G. DSIR, Industrial Processing Division, Petone, New-Zealand
Prepr Pap-Am Chem Soc, Div Fuel Chem, Vol. 24, No. 1, p. 131-141, 1979

1079 196 Article, Properties

Data on the distribution of organic sulfur functional groups in coal
By Attar, A. / Dupuis, F. University of Houston, Houston, Texas
Prepr Pap-Am Chem Soc, Div Fuel Chem, Vol. 24, No. 1, p. 166-177, 1979

1079 197 Article, Properties

Distribution of elements in coal macerals and minerals: Determination by electron microprobe
By Minkin, J.A. / Chao, E.C. / Thompson, C.L. United-States Geological Survey, Reston, Virginia
Prepr Pap-Am Chem Soc, Div Fuel Chem, Vol. 24, No. 1, p. 242-249, 1979

1079 198 Article, Properties, Liquefaction

Determination of protonated and quaternary carbons in H coal liquids from quaternary carbon suppressed and nonsuppressed CMR spectra
By Joseph, J.T. / Wong, J.L. University of Louisville, Louisville, Kentucky
Prepr Pap-Am Chem Soc, Div Fuel Chem, Vol. 24, No. 2, p. 317-326, 1979

1079 199 Article, Properties

Data content of spectrographic coal testing methods
By Ulanovskii, M.L. / Sklyar, M.G.
Coke Chem, No. 5, p. 3-5, 1979

1079 200 Article, Properties

Determination of carbon and nitrogen in solid combustible minerals by pyrolytic chromatography
By Gonstov, A. A. / Kurbatova, E.G.
Solid Fuel Chem, Vol. 13, No. 3, p. 38-42, 1979

1079 201 Article, Properties, Geology

Coal structure and coal science: Overview and recommendations
By Neavel, R.C. Exxon Research and Engineering Company, Baytown, Texas
Prepr Pap-Am Chem Soc, Div Fuel Chem, Vol. 24, No. 1, p.73-82, 1979

1079 202 Article, Properties, Liquefaction

Effect of hydrogen pressure on the reaction of NaOH alcohol coal
By Makabe, M. / Ouchi, K. Hokkaido University, Sapporo, Japan
Prepr Pap-Am Chem Soc, Div Fuel Chem, Vol. 24, No. 2, p. 296-300, 1979

1079 203 Article, Properties

Features of a procedure for the mass spectrometric analysis of the volatile products liberated in the heating of coals
By Kekin, N.A. / Vodolazhchenko, V.V. / Shmal'ko, V.M.
Solid Fuel Chem, Vol. 13, No. 4, p. 76-82, 1979

1079 204 Article, Properties

Forms of nitrogen in hard coals and their transformation in the coking process
By Bronshtein, A.P. / Makarov, G.N. / Akolov, P.V. / Grigor'ev, N.P. D.I. Mendeleev Moscow Institute of Chemical Technology, Moscow, USSR
Solid Fuel Chem, Vol. 13, No. 6, p. 55-62, 1979

1079 205 Article, Properties, Geology

Fissure formation in the sorption of gases on coals with different degrees of tectonic disturbance
By Ettinger, I.L. / Bunin, A.V. / Kovaleva, I.B. / Baranov, R.I.
Solid Fuel Chem, Vol. 13, No. 6, p. 119-123, 1979

1079 206 Article, Properties, Gasification

Influence of the properties of a gaseous reagent of the dependence of the pre exponential factor of the arrhenius equation as a function of the activation energy in the reaction of fibrous carbonaceous materials
By Yavorskii, I.A. / Elchina, V.I. / Gurdzhiyants, V.M. / Nevet, R.M. / Fridman, L.I. / Ivin, V.D.
Solid Fuel Chem, Vol. 13, No. 6, p. 74-78, 1979

1079 207 Article, Properties

Influence of the petrographic composition on the amount of carbon in coals
By Dobronravov, V.F.
Solid Fuel Chem, Vol. 13, No. 6, p. 10-14, 1979

1079 208 Article, Properties

Influence of thermal effects on the results of measurements of the electrical resistance of anthracites by the four probe method
By Posyl'nyi, V.Y. / Mazalov, Y.D.
Solid Fuel Chem, Vol. 13, No. 4, p. 21-23, 1979

1079 209 Article, Properties, Beneficiation

Influence of the conditions of grinding a coke pitch composition on the properties of fine grained graphite
By Filimonov, V.A. / Martynov, A.P. / Bagrov, G.N. / Shepilov, I.P.
Solid Fuel Chem, Vol. 13, No. 5, p. 95-99, 1979

1079 210 Article, Properties

Influence of carbon monoxide on the kinetics of the reaction of carbon dioxide with carbon in the transitional regime
By Gol'dberg, E.L. / Yavorskii, I.A.
Solid Fuel Chem, Vol. 13, No. 5, p. 132-137, 1979

1079 211 Article, Properties

The influence of O Me bonds on the reaction properties of the humic acids of Irsha Borodino coal
By Miesserova, O.K.
Solid Fuel Chem, Vol. 13, No. 6, p. 37-40, 1979

1079 212 Article, Properties

Influence of variations in the parameters of coal on the readings of ash meters
By Grabov, P.I. / Lokshin, A.G. / Onishchenko, A.M. / Starchik, L.P.

Solid Fuel Chem, Vol. 13, No. 5, p. 109-115, 1979

1079 213 Article, Properties

Experience of the use of microphotometry in the study of solid bitumens
By Voropaev, V.N.
Solid Fuel Chem, Vol. 13, No. 6, p. 85-90, 1979

1079 214 Book, Properties, Environment

Coal sulfur measurements
By Hamersma, J.W. / Kraft, M.L. TRW Defense and Space Systems Group, Redondo-Beach, California
Environmental Protection Agency, Research-Triangle-Park, North-Carolina, 65p., July 1979
Report No.: PB-299 575

1079 215 Article, Properties, Combustion

The kinetics of the change in yield of residual volatile matter during thermal processing of Irsha Borodino coal in swirl chambers
By Gagarin, S.G. / Smirnova, T.S. / Markina, T.I. / Kirsanov, V.I. / Slivinskaya, I.I. Institute of Fossil Fuels, Moscow, USSR
Solid Fuel Chem, Vol. 13, No. 1, p. 69-72, 1979

1079 216 Article, Properties, Beneficiation

An investigation of extracts from finely ground coking coal by IR and PMR spectroscopy
By Lebedev, V.V. / Goldenko, N.L. / Khrenkova, T.M.
Solid Fuel Chem, Vol. 13, No. 5, p. 116-122, 1979

1079 217 Article, Properties, Beneficiation

Isolation of scandium from brown coal ash
By Shatskii, V.M. / Guren, G.F. / Borisova, T.F. / Komissarova, L.M.
Solid Fuel Chem, Vol. 13, No. 5, p. 146-148, 1979

1079 218 Article, Properties

Ion exchange methods of determining the acidity of humic acids
By Avugshevich, I.V.
Solid Fuel Chem, Vol. 13, No. 4, p. 69-75, 1979

1079 220 Article, Properties

Magnetic resonance studies of labeled guest molecules in coal
By Ebert, L.B. / Long, R.B. / Schlosberg, R.H. / Silbernagel, B.G.
Prepr Pap, Am Chem Soc, Div Fuel Chem, Vol. 24, No. 1, p. 104-108, 1979

1079 221 Article, Properties

A mathematical model for predicting the quality of the coal alkali reagent at the Semenova Montan Wax Factory
By Kuyan, N.G. / Lyashchenko, V.P. / Shnaper, B.I. / Zinchuk, I.F.
Solid Fuel Chem, Vol. 13, No. 4, p. 36-39, 1979

1079 222 Article, Properties

The modelling of the electronic structure of the organic matter of coal
By Gagarin, S.G. / Gyul'maliev, A.M. / Krichko, A.A. / Prosvirnina, T.G.
Solid Fuel Chem, Vol. 13, No. 6, p. 32-36, 1979

1079 223 Article, Properties, Environment

Modes of occurrence of selected trace elements in several Appalachian coals
By Finkelman, R.B. / Stanton, R.W. / Cecil, C.B. / Minkin, J.A. United-States Geological Survey, Reston, Virginia
Prepr Pap, Am Chem Soc, Div Fuel Chem, Vol. 24, No. 1, p. 236-241, 1979

1079 224 Article, Properties

Organosulfur compounds in the liquid products of the thermal degradation of a sulfur rich Zabitui coal
By Rokhina, E.F. / Baranskii, A.D.
Solid Fuel Chem, Vol. 13, No. 4, p. 94-96, 1979

1079 225 Article, Properties

Problems relating to scientific and technical progress in coke production
By Glushchenko, I.M.
Coke Chem (USSR), No. 5, p. 30-37, 1979

1079 226 Article, Properties, Liquefaction

Nature of the free radicals in coals, pyrolyzed coals, and liquefaction products
By Retcofsky, H.L. / Hough, M.R. Pittsburgh Energy Technology Center, Pittsburgh, Pennsylvania
Prepr Pap, Am Chem Soc, Div Fuel Chem, Vol. 24, No. 1, p. 83-89, 1979

1079 227 Article, Properties

Pulse method of determining the reactivity of carbonaceous materials with respect to carbon dioxide

By Akhmetov, S.A. / Zhirnov, B.S. / Khaziev, F.M.
Solid Fuel Chem, Vol. 13, No. 4, p. 97-99, 1979

1079 228 Article, Properties, Combustion

Polarographic analysis of mellitic and pyromellitic acids and their mixtures
By Chaika, L.V. / Sapunov, V.A. / Rudakov, E.S. / Shapranov, V.V.
Solid Fuel Chem, Vol. 13, No. 5, p. 138-140, 1979

1079 229 Article, Properties, Geology

Relation between coal structure and thermal decomposition products
By Solomon, P.R. United Technologies Research Center, East-Hartford, Connecticut
Prepr Pap, Am Chem Soc, Div Fuel Chem, Vol. 24, No. 2, p. 184-195, 1979

1079 230 Article, Properties, Geology

Some features of thermobaric investigations of Donbass coals
By Babenko, V.P. / Kosinskii, V.A. / Kosourov, V.I.
Solid Fuel Chem, Vol. 13, No. 6, p. 7-9, 1979

1079 231 Article, Properties

Some theoretical prerequisities for the testing and evaluation of the physicochemical properties of coke
By Muchnik, D.A.
Solid Fuel Chem, Vol. 13, No. 4, p. 1-8, 1979

1079 232 Article, Properties, Liquefaction

Structural analysis of quinoline extracts and hydrolysis products of coals
By Ouchi, K. / Iwata, K. / Makabe, M. / Itoh, H. Hokkaido University, Sapporo, Japan
Prepr Pap, Am Chem Soc, Div Fuel Chem, Vol. 24, No. 1, p. 185-190, 1979

1079 233 Article, Properties, Combustion

A study of oxidative ammonolysis of Maikubenskii coal
By Krichevskii, L.A. / Suvorov, B.V. / Moldybaev, A.B. / Marchenko, A.Y. / Sultanbaeva, N.A.
Solid Fuel Chem, Vol. 13, No. 1, p. 29-32, 1979

1079 234 Article, Properties, Liquefaction

Sulfonation of the kerogen of Kuckersite shale
By Cheshko, I.D. / Kutuev, R.K. / Yakovlev, V.I. / Proskuryakov, V.A. / Smirnova, N.D.

Solid Fuel Chem, Vol. 13, No. 4, p. 64-68, 1979

1079 235 Article, Properties

The change in the composition of lignin in the process of peat formation
By Lukoshko, E.S. / Bambalov, N.H. / Smychnik, T.P.
Solid Fuel Chem, Vol. 13, No. 3, p. 132-137, 1979

1079 236 Article, Properties, Liquefaction

The composition and properties of the kerogen of the Pripyat combustible shales of Belorussia from the results of thermal degradation
By Urov, K.E. / Listrem, A.I.
Solid Fuel Chem, Vol. 13, No. 5, p. 74-80, 1979

1079 237 Article, Properties, Liquefaction

The definition of the idea and the classification of humic acids
By Kukharenko, T.A.
Solid Fuel Chem, Vol. 13, No. 5, p. 1-7, 1979

1079 238 Article, Properties, Liquefaction

The effect of reagent access in coal reactivity
By Larsen, J.W. / Choudhury, P. / Greene, T. / Kuemmerle, E.W. University of Tennessee, Knoxville, Tennessee
Prepr Pap, Am Chem Soc, Div Fuel Chem, Vol. 24, No. 1, p. 197-202, 1979

1079 239 Article, Properties

The reactions of coal with transition metal halides
By Beall, H. Worcester Polytechnic Institute, Worcester, Massachusetts
Prepr Pap, Am Chem Soc, Div Fuel Chem, Vol. 24, No. 3, p. 267-270, 1979

1079 240 Article, Properties

Thermal destruction of coal
By Nechaev, Y.A. / Glyanchenko, V.D. / Gryaznov, N.S. / Nechaeva, G.I. / Chevlytko, N.K.
Coke Chem (USSR), No. 12, p. 1-5, 1979

1079 241 Article, Properties

The ultravitrinitic coal of Chukotka
By Lapo, A.V. / Letushova, I.A.

Solid Fuel Chem, Vol. 13, No. 2, p. 33-38, 1979

1079 242 Article, Properties

Transformations of some binders during high temperature treatment
By Gunyaev, G.M. / Timofeeva, S.D. / Kazakov, M.E. / Skripchenko, G.B. / Smutkina, Z.S. / Kudishina, V.A.
Solid Fuel Chem, Vol. 13, No. 3, p. 26-29, 1979

1079 243 Article, Properties, Liquefaction

The extraction of peat bitumens
By Bel'kevich, V.I. / Kolen'kova, I.I. / Koleda, V.V. / Krot, I.A. / Yurkevich, E.A. / Prokhorov, G.M. / Strigutskii, V.P.
Solid Fuel Chem, Vol. 13, No. 4, p. 110-114, 1979

1079 244 Article, Properties

The humic acids of peat and a method for determining them
By D'yachkov, G.S.
Solid Fuel Chem, Vol. 13, No. 2, p. 113-118, 1979

1079 245 Article, Properties

The process of forming macroporous structure of shaped coke
By Kosolapov, V.I.
Solid Fuel Chem, Vol. 13, No. 3, p. 19-34, 1979

1079 246 Article, Properties, Beneficiation

Ash analyzer for coal testing
By Vasil'ev, A.G. / Slavinskii, V.M. / Sklyar, P.T. / Onishchenko, A.M.
Coke Chem (USSR), No. 2, p. 58-62, 1979

1079 247 Article, Properties

A tenative identification of average aromatic ring size in an Iowa vitrain and a Virginia vitrain
By Gerstein, B.C. / Ryan, L.M. / Murphy, P.D. Iowa State University, Ames, Iowa
Prepr Pap, Am Chem Soc, Div Fuel Chem, Vol. 24, No. 1, p. 90-95, 1979

1079 248 Article, Properties

Carbon 13 NMR studies of coals by cross polarization and magic angle spinning
By Miknis, F.P. / G.E., Maciel / Bartuska, V.J. United-States Department of Energy, Laramie, Wyoming

Prepr Pap, Am Chem Soc, Div Fuel Chem, Vol. 24, No. 2, p. 327-333, 1979

1079 249 Article, Properties

Characterization of organic functional groups in model systems for coaly matter employing 19//F NMR
By Dorn, H.C. / Sleevi, P.S. / Koller, K. / Glass, T. Virginia Polytechnic Institute and State University, Blacksburg, Virginia
Prepr Pap, Am Chem Soc, Div Fuel Chem, Vol 24, No. 2, p. 301-309, 1979

1079 250 Article, Properties, Environment

Characterization of iron bearing minerals in coal
By Montano, P.A. West-Virginia University, Morgantown, West-Virginia
Prepr Pap, Am Chem Soc, Div Fuel Chem, Vol. 24, No. 1, p. 218-229, 1979

1079 251 Article, Properties

Laboratory procedure for testing the suitability of coals for formed coke production
By Sheptovitskii, M.S. / Toryanik, E.I. / Avilov, V.N.
Coke Chem (USSR), No. 4, p. 28-30, 1979

1079 252 Article, Properties, Combustion

Method of measuring the ash of coal
By Onishchenko, A.M. / Grabov, P.I. / Starchik, L.P. / Abramovskaya, A.K. / Kuznetsova, A.I.
Coke Chem (USSR), No. 4, p. 10-13, 1979

1079 253 Patent, Properties

Process and equipment to produce coke
By Reerink, W. / Brachthaeuser, K. / Kaimann, W. Projekteirung Chemische, Verfahrenstechnik, Ratingen, Germany
Assignee: Projektierung Chemische, Verfahrenstechnik, Oct. 1979, 17p., CL.C10B, Patent: South-Africa, 78/6371, Nov. 1977, Appl. 2750414, Oct. 1979
Report No.: p. 78/6371

1079 254 Report, Properties

Moessbauer effect spectroscopic study of pyritic sulfur in coal
By Levinson, L.M. General Electric Company, Schenectady, New-York
Electric Power Research Institute, 66p., 1979
Report No.: EPRI-FP-1228

1079 255 Book, Properties

Analytical methods for coal and coal products, Volume III
By Karr, C. Morgantown Energy Technology Center, Morgantown, West-Virginia
Academic Press Inc., New-York, New-York, 1979

1079 256 Article, Properties

A characterization of the rheological properties of coal fuel oil slurries
By Munro, J.M. / Lewellyn, M.M. / Crackel, P.R. / Bauer, L.G. South-Dakota School of Mines and Technology, Rapid-City, South-Dakota
AIChE J, Vol. 25, No. 2, p. 355-358, 1979

1079 257 Article, Properties

Coal tar based polymers with naphthalene repeating units. Polynaphthoxazoles and partial ladder poly(imidazopyrrolones)
By Jedlinski, Z. / Gaik, U. / Mzyk, Z. / Fudal, M. / Kowalski, B.
Polym Prepr Am Chem Soc Div Polym Chem, Vol. 20, No. 2, p. 559-563, 1979

1079 258 Report, Properties

Novel approaches to a study of the fundamental organic chemistry of coal, Final report, September 1, 1977 - September 1, 1979
By Giam, C.S. / Goodwin, T.E. / Tabor, R.L. / Neff, G. / Smith, S. / Ionescu, F. / Trujillo, D. Texas A&M University, College-Station, Texas
United-States Department of Energy, 60p., 1979
Report No.: DSE-2750-T1

1079 259 Conference proceedings, Properties, Geology

Thermo mechanical failure criteria for rock media
By Advani, S.H. / Lee, K.Y. Ohio State University, Columbus, Ohio
Proc Symp Rock Mech 20th, Austin, Texas, June 4-6, 1979, Publ by University of Texas, Austin, Texas, p. 19-26, 1979

1079 260 Conference proceedings, Properties, Geology

Relationship of mechanical, index, and mineralogic properties of coal measure rock
By Barbour, T.G. / Atkinson, R.H. / Ko, H.Y.
Proc Symp Rock Mech 20th, Austin, Texas, June 4-6, 1979, Publ by University of Texas, Austin, Texas, p. 189-198, 1979

1079 261(*) Conference proceedings, Properties, Beneficiation, Gasification, Liquefaction

The proceedings of the 1979 symposium on instrumentation and control for fossil energy processes

United-States Department of Energy, Washington, District-of-Columbia, August 20-22, 1979, 518p., 1979

1079 262 Report, Properties

Coke and coal chemicals in 1977

United-States Department of Energy, 34p., 1979
Report No.: DOE/EIA-0120/77

1079 263 Article, Properties

Utilization of petroleum pitch in metallurgical coke manufacturing
By Tsuyuguchi, M. / Yamada, T. / Sunami, Y.
Proc London Int Carbon Graphite Conf, 5th, Vol. 3, held 1978, published Soc Chem Ind., London, Eng., 1979

1080 0 Article, Properties

Pyrolysis of coal and iron oxides mixtures. 1: Influence of iron oxides on the pyrolysis of coal
By Cypres, R. / Soudan-Moinet, C. Universite Libre de Bruxelles, Brussels, Belgium
Fuel, Vol. 59, Iss. 1, p. 48-54, Jan. 1980

1080 1 Article, Properties

Use of oil sands bitumen and its derivatives as hydrogen donors to coal
By Moschopedis, S.E. Alberta Research Council, Edmonton, Alberta
Fuel, Vol. 59, Iss. 1, p. 67, Jan. 1980

1080 2 Article, Properties

Hot compaction behaviour of coals
By Chow, C. / Chaklader, A.C. University of British-Columbia, Vancouver, British-Columbia
Fuel, Vol. 59, No. 1, p. 27-34, Jan. 1980

1080 3 Article, Properties

Controlling production mechanism of methane gas from coalbeds
By Doscher, T.M. / Kuuskraa, V.A. / Hammershaib, E. University of Southern California, Los-Angeles, California
Energy Sources, Vol. 5, No. 1, 1980, p. 71-84, 1980

1080 4 Article, Properties

Fourier transform infrared studies studies of coal and mineral matter in coal
By Painter, P.C. / Coleman, M.M. Pennsylvania State University, University-Park, Pennsylvania
American Laboratory, Vol. 12, No. 3, March 1980, p. 19-20, 22-23, 25-29, March 1980

1080 5 Article, Properties

Application of a multidimensional switching system (MDSS) to coal tar analysis
By Sevcik, J. Packard Instrument GmbH, Frankfurt, West-Germany
J. High Resolution Chromatography & Chromatography Communications, Vol. 3, No. 1, Jan. 1980, p. 25-27, Jan. 1980

1080 6 Book, Properties

Peat: industrial chemistry and technology
By Fuchsman, C.H.
Academic Press, New-York, 1980, 279 p., 1980

1080 7 Article, Properties

Oxidative transformations of polycyclic aromatic hydrocarbons absorbed on coal fly ash
By Korfmacher, W.A. / Natusch, D.F. / Taylor, D.R. / Mamantov, G. / Wehry, E.L. University of Illinois, Chicago, Illinois
Science, Vol. 207, No. 4432, p. 763-765, Feb. 1980

1080 8 Article, Properties

Mesophase behaviour in oil sand bitumen pitch
By Parkash, S. / Berkowitz, N. Alberta Research Council, Edmonton, Alberta
Fuel, Vol. 59, No. 6, p. 375-379, June 1980

1080 9 Article, Properties

Multitechnique multielemental analysis of coal and fly ash
By Nadkarni, R.A. Exxon Research and Engineering Company, Baytown, Texas
Anal. Chem., Vol. 52, No. 6, p.929-935, 1980

1080 10 Article, Properties, Combustion

Coal combustion fly ash characterization. Rates of adsorption and desorption of water
By Rothenberg, S.J. / Cheng, Y.S. Inhalation Toxicology Research Institute, Albuquerque, New-Mexico
J. Phys. Chem., Vol. 84, No. 12, p. 1644-1649, Dec. 1980

1080 11 Article, Properties, Combustion, Gasification

Study of metals erosion in high temperature coal gas streams
By Tabakoff, W. / Hamed, A. / Ramachandran, J. University of Cincinnati, Cincinnati, Ohio
J. Eng. Power, Vol. 102, No. 1, p. 148-152, Jan. 1980

1080 12 Article, Properties, Gasification, Combustion

Control strategies for pulverized coal fired systems
By Hougen, J.D. University of Texas, Austin, Texas
ISA Trans., Vol. 19, No. 1, p. 29-35, 1980

1080 13 Article, Properties

Radiation properties for polydispersions: application to coal
By Buckius, R.O. / Hwang, D.C. University of Illinois, Urbana, Illinois
J. Heat Transfer Transactions, Vol. 102, No. 1, p. 99-103, Feb. 1980

1080 14 Article, Properties

Reactions of coal with the chlorides of iron, chromium and copper
By Beall, H. Worcester Polytechnic Institute, Worcester, Massachusetts
Fuel, Vol. 59, No. 2, p. 140-142, Feb. 1980

1080 15 Article, Properties

Derivation of structural parameters for coal derived oil by carbon 13 nuclear magnetic resonance spectrometery
By Yoshida, T. / Maekawa, Y. / Uchino, H. / Yokoyama, S. Hokkaido University, Sapporo, Japan
Anal. Chem., Vol. 52, No. 6, p. 817-820, May 1980

1080 16 Article, Prpperties, Liquefaction

Free radical chemistry of coal liquefaction: role of molecular hydrogen
By Vernon, L.W. Exxon Research and Engineering Company, Baytown, Texas
Fuel, Vol. 59, No. 2, p. 102-106, Feb. 1980

1080 17 Article, Properties, Liquefaction

Characterization of a complex mixture of aromatic and heterocyclic acids obtained from oxidation of lignite coal and its solvent refined products
By Duty, R.C. / Hayatsu, R. / Scott, R.G. / Moore, L.P. / Winans, R.E. / Studier, M.H. Argonne National Laboratory, Argonne, Illinois
Fuel, Vol. 59, No. 2, p. 97-101, Feb. 1980

1080 18 Article, Properties, Liquefaction

Coal reduction studies
By Butler, R. / Snelson, A. Illinois Institute of Technology, Chicago, Illinois
Fuel, Vol. 59, No. 2, p. 933-996, Feb. 1980

1080 19 Article, Properties

Multiple determination of volatile matter in solid fuels
By Doolan, K.J. / Knott, A.C. / Belcher, C.B. Broken Hill Proprietary Company Limited, NSW, Australia
Fuel, Vol. 59, No. 4, p. 260-262, April 1980

1080 20 Article, Properties

Chemical reduction of sulphur dioxide to free sulphur with lignite and coal - 1. Steady state reaction chemistry and interaction of volatile components.
By Ratcliffe, C.T. / Pap, G. Allied Chemical Corporation, Morristown, New-Jersey
Fuel, Vol. 59, No. 4, p. 237-243, April 1980

1080 21 Article, Properties

Chemical reduction of sulphur dioxide to free sulphur with lignite and coal 2. Kinetics and proposed mechanism
By Ratcliffe, C.T. / Pap, G. Allied Chemical Corporation, Morristown, New-Jersey
Fuel, Vol. 59, No. 4, p. 244-248, April 1980

1080 22 Article, Properties, Geology

Rheological behaviour of Victorian Brown coal
By Covey, G.H. / Stanmore, B.R. Australian Paper Manufacturer, Fairfield, Victoria
Fuel, Vol. 59, No. 2, p. 123-127, Feb. 1980

1080 23 Article, Properties

Protium NMR study of the co carbonization of hydrogenated anthracene oil with coal tar pitch and coal
By Yokono, T. / Marsh, H. University of Newcastle-Upon-Tyne, Newcastle-Upon-Tyne, United-Kingdom
Fuel, Vol. 59, No. 5, p. 362-364, May 1980

1080 24 Article, Properties

Analysis of kaolinite in coal by infrared spectroscopy
By Painter, P.C. / Snyder, R.W. / Youtcheff, J. / Given, P.H. / Gong, H. / Suhr, N. Pennsylvania State University, University-Park, Pennsylvania
Fuel, Vol. 59, No. 5, p. 364-366, May 1980

1080 25 Article, Properties

Graphical method for determination of the mineral matter free properties of coal and the mineral matter ash ratio
By Gray, V.R. Coal Research Association, Wellington, New-Zealand

Fuel, Vol. 59, No. 8, p. 551-556, Aug. 1980

1080 26 Article, Properties

Study of the reaction of Maleic anhydride with Illinois bituminous coal
By Duty, R.C. / Liu, H.F. Illinois State University, Normal, Illinois
Fuel, Vol. 59, No. 8, p. 546-550, Aug. 1980

1080 27 Article, Properties, Beneficiation

Radiometric assessment of abrasiveness of coal in pulverizers
By Douglas, L.S. / Ditchburn, R.G. Institute of Nuclear Sciences, Gracefield, New-Zealand
Fuel, Vol. 59, No. 7, p. 532-534, July 1980

1080 28 Article, Properties

Concerning the putative presence of nitrate in lignites
By Painter, P.C. / Youtcheff, J. / Given, P.H. Pennsylvania State University, University-Park, Pennsylvania
Fuel, Vol. 59, No. 7, p. 523-526, July 1980

1080 29 Article, Properties, Beneficiation

Effects of zinc chloride on sulfur removal from coal related structures
By Mobley, D.P. / Bell, A.T. University of California, Berkeley, California
Fuel, Vol. 59, No. 7, p. 507-510, July 1980

1080 30 Article, Properties

Spectroscopic investigations of solvent refined coal fractions
By Curtis, C.W. / Hathaway, C.D. / Guin, J.A. Auburn University, Auburn, Alabama
Fuel, Vol. 59, No. 8, p. 575-583, Aug. 1980

1080 31 Article, Properties, Combustion, Beneficiation

Moessbauer spectroscopic studies of the mineralogical changes in coal as a function of cleaning, pyrolysis, combustion and coal conversion processes
By Saporoschenko, M. / Hinckley, C.C. / Smith, G.V. / Twardowska, H. / Shiley, R.H. / Griffin, R.A. / Russell, S.J.
Southern Illinois University, Carbondale, Illinois
Fuel, Vol. 59, No. 8, p. 567-574, Aug. 1980

1080 32 Article, Properties

Examination of the influence of natural quinoline insoluble material on the kinetics of mesophase formation

By Stadelhofer, J.W. Castrop-Rauxel, Germany
Fuel, Vol. 59, No. 5, p. 360-361, May 1980

1080 33 Article, Properties, Combustion

Statistical analyses and prediction of coking properties of coal
By Koba, K. Mitsui-Kozan Coking Industry Company, Kitakyushu, Japan
Fuel, Vol. 59, No. 6, p. 380-388, June 1980

1080 34 Article, Properties, Beneficiation

Removal of sulphur from coal by thiobacillus ferroxidans and by mixed aciodophilic bacteria present in coal
By Chandra, D. / Pradosh, R. / Mishra, A.K. / Chakrabarti, J.N. / Prasad, N.K. / Chaudhuri, S.G. Indian School of Mines, Dhanbad, India
Fuel, Vol. 59, No. 4, p. 249-252, April 1980

1080 35 Article, Properties

Structural modes of sulphur bitumen composites as studied by electron microscopy
By Papirer, E. / Fritschy, G. / Eckhardt, A. Centre de Recherche sur la Physico-Chimie des Surfaces Solides, Mulhouse, France
Fuel, Vol. 59, No. 9, p. 617-620, Sept. 1980

1080 36 Article, Properties

Coal derived asphaltenes: effect of phenol content and molecular weight on viscosity of solutions
By Bockrath, B.C. / LaCount, R.B. / Noceti, R.P. United-States Department of Energy, Pittsburgh, Pennsylvania
Fuel, Vol. 59, No. 9, p. 621-626, Sept. 1980

1080 37 Article, Properties, Geology

Coalification paths of exinite, vitrinite and inertinite
By Smith, G.C. / Cook, A.C. State Electricity Commission of Victoria, Victoria, Australia
Fuel, Vol. 59, No. 9, p. 641-646, Sept. 1980

1080 38 Article, Properties, Combustion

Effects of pre extracting a Liddell coal on its agglomeration properties during flash pyrolysis
By McCarthy, D.J. / Casamento, P.A. CSIRO, Division of Mineral Engineering, Victoria, Australia
Fuel, Vol. 59, No. 9, p. 659-660, Sept. 1980

1080 39 Article, Properties, Combustion, Environment

Volatility of fly ash and coal
By Smith, R.D. / Campbell, J.A. / Nielson, K.K. United-States Department of Energy, Washington, District-of-Columbia
Fuel, Vol. 59, No. 9, p. 661-665, Sept. 1980

1080 40 Article, Properties, Geology

Standard reference coals
Gas Research Institute, Chicago, Illinois
Gas Research Institute, Chicago, Illinois, p. 3.1-3.12, July 1980

1080 41 Article, Properties

The use of model compounds in coal chemistry
Gas Research Institute, Chicago, Illinois
Gas Research Institute, Chicago, Illinois, p. 6.1-6.24, July 1980

1080 42 Article, Properties

Concentrations of elements in the National Bureau of Standards' bituminous and subbituminous coal standard reference materials
By Germani, M.S. / Gokmen, I. / Sigleo, A.C. / Kowalczyk, G.S. / Olmez, I. / Small, A.M. / Anderson, D.L. / Failey, M.P. / Gulovali, M.C. / Choquette, C.E. / Lepel, E.A. / Gordon, G.E. / Zoller, W.H. University of Maryland, College-Park, Maryland
Anal. Chem, Vol. 52, No. 2, p. 240-245, Feb. 1980

1080 43 Article, Properties, Mining

Size degradation of bituminous coal from Western Canada
By Mikhail, M.W. / Patching, T.H. Canada Centre for Mineral and Energy Technology, Ottawa, Ontario
CIM Bull., Vol. 73, No. 817, p. 105-110, May 1980

1080 44 Article, Properties

Low temperature oxidation of a bituminous coal. Infrared spectroscopic study of samples from a coal pile
By Bouwman, R. / Freriks, I.L. Koninklijke/Shell-Laboratorium, Amsterdam, The-Netherlands
Fuel, Vol. 59, No. 5, p. 315-322, May 1980

1080 45 Article, Properties

Colloidal structure of Victorian Brown Coal. 3. Examination by ultracentrifugation
By Camier, R.J. / Siemon, S.R. / Stanmore, B.R. University of Melbourne, Parkville, Australia
Fuel, Vol. 59, No. 5, p. 331-334, May 1980

1080 46 Article, Properties, Combustion

Proton NMR study of tars from flash pyrolysis of three Australian coals
By Colin, P.J. / Tyler, R.J. / Wilson, M.A. CSIRO, Division of Process Technology, North-Ryde, Australia
Fuel, Vol. 59, No. 7, p. 479-486, July 1980

1080 47 Article, Properties

Analysis of Cold Lake bitumen hydrocarbons by combined GLC field ionization mass spectrometry and GLC electron impact mass spectrometry
By Payzant, J.D. / Rubinstein, I. / Hogg, A.M. / Strausz, O.P. University of Alberta, Edmonton, Alberta
Chem Geol, Vol. 29, No. 1-2, p. 73-88, Jan. 1980

1080 48 Article, Properties

Average chemical structure of mild hydrogenolysis products of coals
By Yoshida, T. Hokkaido University, Sapporo, Japan
Fuel Process Tech, Vol. 3, No. 3-4, p. 221-229, March 1980

1080 49 Article, Properties, Liquefaction

Chemical nature of coal hydrogenation oils. Part 2, the effect of temperature
By Kershaw, J.R. / Barrass, G. / Preez, I.C. Du / Gray, D. Fuel Research Institute of South-Africa, Pretoria, South-Africa
Fuel Process. Tech., Vol. 3, No. 2, p. 131-140, 1980

1080 50 Article, Properties, Liquefaction

Chemical nature of coal hydrogenation oils. Part 1, the effect of catalysts
By Kershaw, J.R. / Barrass, G. / Gray, D. Fuel Research Institute of South-Africa, Pretoria, South-Africa
Fuel Process Tech, Vol. 3, No. 2, p. 115-129, 1980

1080 51 Article, Properties

Determination of aluminum in bulk coal samples by neutron activation analysis
By Borsaru, M. / Mathew, P.J. CSIRO, Division of Mineral Physics, Melbourne, Australia
Anal. Chim. Acta., Vol. 118, No. 1, p. 109-114, 1980

1080 52 Article, Properties

An improved hydrogenation microcoulometric method for the determination of nitrogen in organic materials including coal and heavy residual oils
By Zeen, P.J. / Grondelle, M.C. Van Koninklijke/Shell-Laboratorium, Amsterdam, The-Netherlands
Anal. Chim. Acta., Vol. 118, No. 2, p. 277-283, 1980

1080 53 Article, Properties, Transportation

Coking behavior of coals recovered from slurry pipelines using a selective agglomeration technique
By Brown, N.A. / Rigby, G.R. / Callcott, T.G. Broken Hill proprietary Company Limited, NSW, Australia
Fuel Process Tech, Vol. 3, No. 2, p. 101-114, 1980

1080 54 Article, Properties

The linear properties of thin layers, with an application to synthetic seismograms over coal seams
By Koefoed, O. / de-Voogd, N. Delft University of Technology, Delft, Netherlands
Geophysics, Vol. 45, No. 8, p. 1254-1268, Aug. 1980

1080 55 Article, Properties

Interaction between deformation, fracture initiation and fracture propagation in two phase Co CoAl alloys
By Przystupa, M.A. / Stout, M.G. / Courtney, T.H. Michigan Technological University, Houghton, Michigan
Metall. Trans. A., Vol. 11A, No. 4, p. 643-652, April 1980

1080 56 German Article, Properties

Effect of short coking time on heat balance of coke ovens when using wet coal
By Habermehl, D. / Rohde, W. / Beck, K.G. Bergbau-Forschung GMBH, Essen, Germany
Glueckauf, Vol. 116, No. 4, p. 168-174, 186, Feb. 1980

1080 57 Article, Properties

An investigation into the British standard high temperature method for the determination of chlorine in coal
By Gibb, W.H. / Mayne, G.F. Central Electricity Generating Board, Midlands, United-Kingdom
Journal of the Institute of Energy, Vol. 53, No. 414, p. 47-51, March 1980

1080 58 Article, Properties

Petroporphyrins in Indian crude oils
By Dey, N.C. / Saikia, B.K. Regional Research Laboratory, Jorhat, Assam, India
Indian J. Tech, Vol. 18, No. 1, p. 41-42, Jan. 1980

1080 59 Article, Properties

Water formed in combustion of coal
By Vijayaraghavan, D. Bharat Heavy Electricals Ltd., Tiruchirapalli, India
Chem Eng Vol. 87, No. 13, p. 140-142, June 1980

1080 60 french Article, Properties

Dynamic mechanical properties of a bitumen silica composite II. Temperature concentration and frequency silica concentration equivalence
By Fritschy, G. / Papirer, E. Centre de Recherche sur la Physico-Chimie des Surfaces Solides, Mulhouse, France
Rheologica Acta, Vol. 19, No. 1, p. 116-123, March 1980

1080 61 french Article, Properties

Dynamic mechanical properties of a bitumen silica composite III. Modelling of the behaviour of bitumen silica composites and confirmation of the equivalence principles
By Fritschy, G / Papirer, E. Centre de Recherche sur la Physico-Chimie des Surfaces Solides, Mulhouse, France
Rheologica Acta, Vol. 19, No. 2, p. 153-158, 1980

1080 62 Article, Properties

Nuclear analyzer determines coal constituents fast
By Brown, D.R. / Bozorgmanesh, H. / Gozani, T. Science Applications, Inc., Palo-Alto, California
Coal Min Process, Vol. 17, No. 9, p. 88-90, Sept. 1980

1080 63 Article, Properties

Cellulose thermally decomposes at 70 degrees C
By Kosiewicz, S.T. Los-Alamos Scientific Laboratory, University of California, Los-Alamos, New-Mexico
Thermochim. Acta., Vol. 40, No. 2, p. 319-326, 1980

1080 64 Article, Properties

Interfacial activity of vanadium and nickel porphyrin concentrates from darius crude
By Chakraborty, S. / Bhatia, V.K. Indian Institute of Petroleum, Dehra-Dun, India
Indian J. Tech., Vol. 18, No. 7, p. 301-303, July 1980

1080 65 Article, Properties

A critical evaluation of short lived and long lived neutron activation products for trace element determinations
By Tout, R.E. / Chatt, A. Dalhousie University, Halifax, Nova-Scotia
Anal. Chim. Acta., Vol. 118, No. 2, p. 341-358, Aug. 1980

1080 66 Article, Properties

Recovery and upgrading of heavy oil analyzed
By Fornoff, L.L. / Van-Driesen, R.P. / Viens, C.H. Lummus Company, Bloomfield, New-Jersey
Oil Gas J, Vol. 78, No. 41, p. 156-158, Oct. 1980

1080 67 Article, Properties

Geochemistry of amino acids in some Florida peat accumulations - 2. amino acid distributions
By Casagrande, D.J. / Given, P.H. Pennsylvania State University, University-Park, Pennsylvania
Geochim. Cosmochim. Acta., Vol. 44, No. 10, p. 1493-1508, Oct. 1980

1080 68 Article, Properties

Identification and geochemical significance of some aromatic components of coal
By White, C.M. / Lee, M.L. Pittsburgh Energy Research Center, Pittsburgh, Pennsylvania
Geochim. Cosmochim. Acta, Vol. 44, No. 11, p. 1825-1832, Nov. 1980

1080 69 Article, Properties, Liquefaction

Rheological properties of pitches and bitumina up to temperatures of 500 degrees C
By Balduhn, R. / Fitzer, E. University of Karlsruhe, Karlsruhe, Germany
Carbon, Vol. 18, No. 2, p. 155-161, 1980

1080 70 Article, Properties

Change of pore properties during carbonization of coking coal
By Miura, S. / Silveston, P.L. University of Waterloo, Waterloo, Ontario
Carbon, Vol. 18, No. 2, p. 93-108, 1980

1080 71 Article, Properties

A note on the composition of jet
By Muller, H.
Journal of Gemmology, Vol. 17, No. 1, p. 10-18, Jan. 1980

1080 72 Article, Properties

Straight chain alkyl chain lengths in petroleum asphaltenes
By Simm, I. / Steedman, W. Heriot-Watt University, Riccarton, Edinburgh, United-Kingdom
Fuel, Vol. 59, No. 9, p. 669, Sept. 1980

1080 73 Article, Properties, Beneficiation

Treatment of Green River oil shale by carbon dioxide: evidence for association of bitumen and carbonate materials
By Vandegrift, G.F. / Winans, R.E. / Horwitz, E.P. Argonne National Laboratory, Argonne, Illinois
Fuel, Vol. 59, No. 9, p. 634-636, Sept. 1980

1080 74 Article, Properties

Structural modes of sulphur in sulphur bitumen composites as studied by electron microscopy
By Papirer, E. / Fritschy, G. / Eckhardt, A. Centre de Recherche sur la Physico-Chimie des Surfaces Solides, Mulhouse, France
Fuel, Vol. 59, No. 9, p. 617-620, Sept. 1980

1080 75 Article, Properties

Chemical transformations of brown coal waxes
By Papirova, E.A. / Rode, V.V.
Solid Fuel Chem, Vol. 13, No. 3, p. 127-131, 1979

1080 76 Article, Properties, Liquefaction, Gasification

A kinetic comparison of coal pyrolysis and coal dissolution
By Wiser, W.H.
Fuel, Vol. 47, p. 475-485, 1980

1080 77 Article, Properties

Production of pyrrhotites by pyrite reduction
By Lambert, J. / Simkovich, G. / Walker, P.L. Pennsylvania State University, University-Park, Pennsylvania
Fuel, Vol. 59, No. 10, p. 687-690, Oct. 1980

1080 78 Patent, Properties

Carbonaceous cast moulding composition
By Antonov, A.N. / Fokin, M.N. / Zhdanov, V.K. / Barsukov, V.N. / Krivopolenov, V.M. / Zaritsky, B.M. All-Union Scientific Research Institute of Anticorrosion Protection of Metals, Moscow, USSR
Assignee: All-Union Scientific Research Institute of Anticorrosion Protection of Metals, April 1980, 5p., C08L27/12, Patent: England, 2 030 577, Sept. 1978, Appl. 7837480, April 1980
Report No.: p. 2 030 577

1080 79 Patent, Properties

Determination of chromate ion in drilling mud filtrates
By Whitfill, D.L. Conoco Coal Development Company, Ponca-City, Oklahoma
Assignee: Conoco Incorporated, July 1980, 4p., 23/230R, G01N33/24, Patent: United-States, 4 213 762, Dec. 1978, Appl. 969 606, July 1980
Report No.: p. 4 213 762

1080 80 Article, Properties

Distribution of organic matter in a shale clast
By Barker, C.R.. University of Tulsa, Tulsa, Oklahoma
Geochim Cosmochim Acta, Vol. 44, No. 10, p. 1483-1492, 1980

1080 81 Article, Properties

Distribution of nitrogen in fractions of Athabasca bitumen
By Aiyar, V.N. / Houwen, O.H. / Bachelor, F.W. University of Calgary, Calgary, Alberta
Fuel, Vol. 59, No. 4, p. 276-8, 1980

1080 82 Article, Properties

Direct atomic absorption spectrometric determination of copper, nickel and vanadium in coal and petroleum coke
By Langmyhr, F.J. / Aadalen, U. University of Olso, Olso, Norway
Anal Chim Acta, Vol. 115, p. 365-368, March 1980

1080 83 Article, Properties

Effects of manufacturing conditions on the porperties of coal derived caking additives
By Miura, Y. / Nishi, T. / Yamaguchi, T. / Arima, T. / Okuhara, T. / Tamaki, K. / Migitaka, W. / Tateno, M. Nippon Steel Corporation, Kitakyushu, Japan
Fuel, Vol. 59, No. 10, p. 704-710, 1980

1080 84 Article, Properties

Design and characterization of an apparatus for agglomeration testing during flash pyrolysis in entrained flow reactors
By McCarthy, D.J. CSIRO, Division of Mineral Engineering, Victoria, Australia
Fuel, Vol. 59, p. 563-566, Aug. 1980

1080 85 Article, Properties

Dihydroaromatic structure of Illinois No. 6 Monterey coal
By Deno, N.C. / Curry, K.W. / Greigger, B.A. / Jones, A.D. / Rakitsky, W.G. / Smith, K.A. / Wagner, K. / Minard, R.D. Pennsylvania State University, University-Park, Pennsylvania
Fuel, Vol. 59, No. 10, p. 694-8, 1980

1080 86 Conference proceedings, Properties

Petrology and coking potential of selected coals from the Piceance Creek Basin, Colorado
By Childs, S.M. / Crelling, J.C. / Dutcher, R.R. / Goolsby, S.M. Southern Illinois University, Carbondale, Illinois
Proceedings of the Fourth Symposium on the Geology of Rocky Mountain Coal, Denver, Colorado, April 28-29, 1980, p. 55-57, April 1980
Report No.: Resource Series 10

1080 87 Conference proceedings, Properties

Fluorescent macerals in Colorado coking coals
By Creiling, J.C. / Dutcher, R.R. Southern Illinois University, Carbondale, Illinois
Proceedings of the Fourth Symposium on the Geology of Rocky Mountain Coal, Denver, Colorado, April 28-29, 1980, p. 58-61, April 1980
Report No.: Resource Series 10

1080 88 Patent, Properties, Beneficiation

Treatment and recovery of larger particles of fine oxidized coal
By Finch, R.E. Nalco Chemical Company, Oak-Brook, Illinois
Assignee: Nalco Chemical Company, Sept. 1980, 6p., 209/166, B03D1/02, Patent: United-States, 4 222 861, June 1978, Appl. 913 974, Sept. 1980
Report No.: p. 4 222 861

1080 90 Patent, Properties, Liquefaction

Nitro substituted polyaromatic polycarboxylic acid compositions and processes for their preparation from coal based materials
By Schulz, J.G. / Sabourin, E.T. Gulf Research and Development Company, Pittsburgh, Pennsylvania
Assignee: Gulf Research and Development, March 1980, 6p., C07C79/46, Patent: Britain, 1 563 451, Oct. 1977, Appl. 41378/77, March 1980
Report No.: p. 1 563 451

1080 91 Patent, Properties

Mixture of polycyclic aromatic polycarboxylic anhydrides carrying nuclear nitro groups, and their preparation
By Schulz, J.G. Gulf Research and Development Company, Pittsburgh, Pennsylvania
Assignee: Gulf Research and Development Company, Aug. 1980, 13p., C07D307/77, Patent: Europe, 0 013 785, Jan. 1979, Appl. 79300101.7, Aug. 1980
Report No.: p. 0 013 785

1080 92 Article, Properties

Fluorescence line narrowing spectrometry in glasses for direct determination of polycyclic aromatic hydrocarbons in solvent refined coal
By Brown, J.C. / Duncanson, J.A. / Small, G.J. Iowa State University, Ames, Iowa
Anal Chem, Vol. 52, No. 11, p. 1711-1715, 1980

1080 93 Article, Properties

Features of the composition of the bitumoids of coal of different ranks from the Pechora Basin
By Shishenina, E.P. / Kulibakina, I.B. / Gulyaeva, N.D. / Gavrilov, E.Y.
Solid Fuel Chem, Vol. 14, No. 1, p. 71-74, 1980

1080 94 Article, Properties

Effect of crushing coal on its IR spectrum
By Bubnovskaya, L.M. / Popov, V.K. / Rus'yanova, N.D.
Coke Chem (USSR), No. 1, p. 6-9, 1980

1080 95 Article, Properties

Electrical resistance of heat treated anthracites and its anisotropy
By Posyl'nyi, V.Y. / Mazalov, Y.D.
Solid Fuel Chem, Vol. 14, No. 1, p. 58-62, 1980

1080 96 Article, Properties

Features of the thermal degradation of modified brown coals
By Gankina, L.V. / Sukhov, V.A. / Lukovnikov, A.F.
Solid Fuel Chem, Vol. 14, No. 1, p. 89-95, 1980

1080 97 Article, Properties

Influence of the degree of compaction of carbonaceous compositions on the increase in the yield of coke due to the binder
By Petrov, N.V. / Syskov, K.I. / Golubeva, V.R.
Solid Fuel Chem, Vol. 14, No. 1, p. 49-51, 1980

1080 98 Article, Properties

Influence of inorganic electrolytes on the electrokinetic potential of hard coals
By Zubkova, Y.N.
Solid Fuel Chem, Vol. 14, No. 1, p. 67-70, 1980

1080 99 Book, Properties

Molecular structure of coal
By Davidson, R.M.
IEA Coal Research, London, England, 86p., Jan. 1980
Report No.: ICTIS/TR08

1080 100 Article, Properties

Measurement of swelling of coals in organic liquids - A new approach
By Nelson, J.R. / Mahajan, O.P. / Walker, P.L. Pennsylvania State University, University-Park, Pennsylvania
Fuel, Vol. 59, No. 12, p. 831-837, 1980

1080 101 Article, Properties, Gasification

A mass spectrometric investigation of the yield of volatile matter when coal is heated to 450 deg C
By Kekin, N.A. / Vodolazhchenko, V.V. / Shmal'ko, V.M.
Solid Fuel Chem, Vol. 14, No. 1, p. 112-118, 1980

1080 102 Article, Properties

Pitch from thermal processing of tar
By Stepanenko, M.A. / Privalov, V.E. / Glushchenko, V.I.
Coke Chem (USSR), No. 1, p. 58-62, 1980

1080 103 Article, Properties, Geology

Possible parameters of the cokeability of low rank coals
By Ulanov, N.N.
Solid Fuel Chem, Vol. 14, No. 1, p. 28-32, 1980

1080 104 Article, Properties, Transportation

Stability and rheological properties of aqueous suspension of the brown coal of the Agulak deposit of the Kirghiz SSR
By Belyagin, G.N. / Koz'min, G.V. / Dzhundubaev, A.K.
Solid Fuel Chem, Vol. 14, No. 1, p. 108-111, 1980

1080 105 Book, Properties

Modes of occurence of trace elements in coal - dissertation
By Finkelman, R.B. University of Maryland, College-Park, Maryland
University of Maryland, College-Park, Maryland, 329p., 1980

1080 106 Article, Properties

Use of HPLC in fractionation of lignite humic substances
By Balabanova-Radonova, E. / Stefanova, M. / Nikolov, R. Higher Institute of Chemical Technology, Sofia, Bulgaria
Fuel, Vol. 59, No. 4, p. 271-272, 1980

1080 107 Article, Properties

A study of some coals of the Pechora Basin with respect to the parameters of the draft petrological geochemical classification
By Tsikarev, D.A. / Musyal, S.A. / Limonova, V.Y. / Belova, R.P. / Sokolovskaya, E.E.
Solid Fuel Chem, Vol. 14, No. 1, p. 25-27, 1980

1080 108 Article, Properties

Studies on the dielectric properties of raw and beneficiated coal
By Joshi, M.G. / Guha, D. / Chetal, A.R. Indian School of Mines, Dhanbad, India
Fuel, Vol. 59, No. 10, p. 691-693, Oct. 1980

1080 109 Article, Properties, Gasification

Technique to measure the temperature of agglomeration of coal ash
By Stallmann, J.J. / Neavel, R.C. Exxon Research and Engineering Company, Baytown, Texas
Fuel, Vol. 59, No. 8, p. 584-586, Aug. 1980

1080 110 Article, Properties

The coal char reaction with CO//2 CO gas mixtures
By Agarwal, A.K. / Sears, J.T. West-Virginia University, Morgantown, West-Virginia
Ind Eng Chem Process Des Dev, Vol. 19, No. 3, p. 364-371, July 1980

1080 111 Article, Properties

The dielectric properties of the hard coals of the Donbass in the SHF region
By Sapunov, V.A. / Kryukov, V.N. / Chuprina, V.S. / Aleshin, V.I. / Uziyuk, V.I.
Solid Fuel Chem, Vol. 14, No. 1, p. 17-19, 1980

1080 112 Article, Properties

A simple acid digestion method for the determination of ten elements in ambient aerosols by flame atomic absorption spectrometry
By Stolzenburg, T.R. / Andren, A.W. University of Wisconsin, Madison, Wisconsin
Anal Chim, Vol. 118, No. 2, p. 377-380, 1980

1080 113 Article, Properties, Liquefaction

Analysis of coal asphaltenes by carbon 13 Fournier transform nuclear magnetic resonance spectrometry
By Sklenar, V. / Hajek, M. / Sebor, G. / Lang, I. / Suchanek, M. / Starchuk, Z. Czechoslovak Academy of Sciences, Brno, Czechoslovakia
Anal Chem, Vol. 52, No. 12, p. 1794-1797, 1980

1080 114 Article, Properties

Anisotropic electrical properties of coal
By Balanis, C.A. / Shepard, P.W. / Ting, F.T. / Kardosh, W.F. West-Virginia University, Morgantown, West-Virginia
IEEE trans Geosci Remote Sensing, Vol. GE-18, Iss. 3, p. 250-256, July 1980

1080 115 Article, Properties

Chemical structure of Wyodak coal
By Deno, N.C. / Greigger, B.A. / Jones, A.D. / Rakitsky, W.G. / Smith, K.A. / Minard, R.D. Pennsylvania State University, University-Park, Pennsylvania
Fuel, Vol. 59, No. 10, p. 699-700, Oct. 1980

1080 116 Article, Properties

Carbon carbon bond forming processes mediated by organotransition metal complexes
By Bergman, R.G. University of California, Berkeley, California
Prepr Pap, Am Chem Soc, Div Pet Chem, Vol. 25, No. 2, p. 341-351, 1980

1080 117 Article, Properties

The change in the properties of concentrates from Karaganda coals of different types according to separation densities
By Muzychuk, V.D. / Mel'nichuk, A.Y. / Pluzhnikov, A.I. / Dobrovinskii, G.B. / Turchenkova, L.M.
Solid Fuel Chem, Vol. 14, No. 1, p. 8-13, 1980

1080 118 Article, Properties

Characterization of heteroaromatics in coals and coal products
By Winans, R.E. / Scott, R.G. / McBeth, R.L. / Hayatsu, R. Argonne National Laboratory, Argonne, Illinois
Prepr Pap, Am Chem Soc, Div Pet Chem, Vol. 25, No. 2, p. 262-267, 1980

1080 119 Abstract-book, Properties, Environment

High performance liquid chromatography: citations from the energy data base, June 1976 - May 1980
By Marcus, L.H. New-England Research Application Center, Storrs, Connecticut
United-States Department of Commerce, NTIS, Springfield, Virginia, 123p., 1980
Report No.: PB80-852510

1080 120 Report, Properties

Evaluation of an optical microscope method for coal pyrite/marcasite differentiation
By Sanner, W.S. / Meteney, D.L. Pittsburgh Mining Technology Center, Pittsburgh, Pennsylvania
United-States Department of Energy, 11p., May 1980
Report No.: DOE/PMTC/TR-1(80)

1080 121 Article, Properties

Comparison of the characteristics of pitch coke and petroleum coke

By Seth, R.L. / Verma, C.L. / Dhami, T.L. / Mithal, V.P. National Physical Laboratory, New-Delhi, India
Ind J Tech, Vol. 18, No. 11, p. 466-468, 1980

1080 122 Article, Properties

The composition of the humic acids of brown coals of the Grachevka Deposit
By Ter-Akopyants, L.D. / Polovnikova, I.A.
Solid Fuel Chem, Vol. 14, No. 1, p. 40-44, 1980

1080 123 Article, Properties

Glass transformation in some pitch materials
By Rand, B. / Shepherd, P.M. University of Sheffield, Sheffield, United-Kingdom
Fuel, Vol. 59, No. 11, p. 814-816, 1980

1080 124 Article, Properties

Effect of weathering on caking and coking properties of coal
By Sarkar, S. Indian Institute of Technology, Bombay, India
Fuel, Vol. 59, No. 6, p. 450-451, 1980

1080 125 Article, Properties

Features of measurement of the electrical characteristics of coal tar
By Kozareva, V. / Zhurovski, D. / Dyustabanov, G.
Coke Chem (USSR), No. 1, p. 63-66, 1980

1080 126 Article, Properties, Combustion, Beneficiation

Experience in the combined processing of feedstocks of coal and petroleum origin by the slow coking method
By Stekhun, A.I. / Mustafina, S.A. / Korchagina, T.V. / Korchagina, R.N.
Coke Chem (USSR), No. 1, p. 39-41, 1980

1080 127 Book, Properties

Oxidation methods for the study of coal structure - dissertation
By Rakitsky, W.G. Pennsylvania State University, University-Park, Pennsylvania
Pennsylvania State University, University-Park, Pennsylvania, 177p., 1980

1080 128 Report, Properties, Geology, Environment

Physical and chemical characteriztion of coal
By Hamblen, D.G. / Solomon, P.R. / Hobbs, R.H. United Technologies Research Center, East-Hartford, Connecticut

U.S. Environmental Protection Agency, 163p., May 1980
Report No.: NTIS.EPA-600/7-80-106

1080 129 Article, Properties

EXAFS studies of supported metal catalysts
By Via, G.H. / Sinfelt, J.H. / Lytle, F.W. Exxon Research and Engineering Company, Linden, New-Jersey
Am Chem Soc, Div Pet Chem, Vol. 25, No. 2, p. 313-315, 1980

1080 130 Article, Properties

Influence of the 'alpha'//1 and 'alpha'//2 fractions on the low temperature carbonization of coal tar pitch
By Pashchenkova, L.F. / Rusinovskaya, N.N.
Coke Chem (USSR), No. 2, p. 31-34, 1980

1080 131 Article, Properties, Liquefaction

Modification of coal anticorrosion compounds
By Gurevich, B.S. / Mochalov, V.V. / Sizova, E.M.
Coke Chem (USSR), No. 3, p. 77-76, 1980

1080 132 Article, Properties

Reduction of coal in hexamethylphosphoramide Na t BuOH and the molecular weight distribution of pyridine soluble material
By Ouchi, K. / Hirano, Y. / Makabe, M. / Itoh, H. Hokkaido University, Sapporo, Japan
Fuel, Vol. 59, No. 11, p. 751-756, Nov. 1980

1080 133 Article, Properties, Combustion, Liquefaction

Moessbauer studies of illites and heat treated illite as related to coal conversion processes
By Saporoschenko, M. / Twardowska, H. / Smith, G.v. / Hinckley, C.C. / Shiley, R.H. / White, W.A. Southern Illinois University, Carbondale, Illinois
Fuel, Vol. 59, No. 11, p. 767-771, 1980

1080 134 Article, Properties, Liquefaction

Structural studies on coal extracts
By Bartle, K.D. / Ladner, W.R. / Martin, T.G. / Snape, C.E. University of Leeds, Leeds, United-Kingdom
Inst Chem Eng Symp Ser, Vol. 62, 1980, p. B1-B15, 1980

1080 135 Report, Properties, Mining, Combustion

Nuclear assay of coal, Volume 7: Coal rheology and its impact on nuclear assay

By Gozani, T. / Hogg, R. / Luckie, P. Science Applications, Inc., Palo-Alto, California
Electric Power Research Institute, Vol. 7, 43p., 1980
Report No.: EPRI CS-989

1080 136 Report, Properties, Gasification

Coal block pyrolysis: Effects of changing surface characteristics
By Alexander, G.L. / Hu, B.V. / Kwai, A.H. / Westmoreland, P.R. / Fuller, E.L. Oak-Ridge National Laboratory, Oak-Ridge, Tennessee
U.S. Department of Energy. 30p., Oct. 1980
Report No.: ORNL/MIT-294

1080 137 Report, Properties, Gasification, Liquefaction

Interaction of H atoms with ultrafine coal dust - Final technical report
By Mains, G.J. Oklahoma State University, Stillwater, Oklahoma
U.S. Department of Energy, 52p., March 1980
Report No.: ORO-5020-7

1080 138 Article, Properties

Polymeric structure of coal. 3. Re examination of the role of ether bonds in reduction of molecular weight of a low rank vitrinite treated with hydrogen donor
By Carson, D.W. / Ignasiak, B.S. Alberta Research Council, Edmonton, Alberta
Fuel, Vol. 59, No. 11, p. 757-761, 1980

1080 139 Article, Properties, Liquefaction

Rheology of carbonaceous mesophase pitch
By Nazem, F.F. Union Carbide Corporation, Parma, Ohio
Fuel, Vol. 59, No. 12, p. 851-858, Dec. 1980

1080 140 Article, Properties

Simple and improved methods of viscosity measurements for pitch
By Toshihide, I. / Sugimoto, T. Fujikosan Company Limited, Wakayama, Japan
Fuel, Vol. 59, No. 11, p. 812-814, 1980

1080 141 Patent, Properties

Sewage sludge additive
By Kalvinskas, J.J. / Mueller, W.A. / Ingham, J.D. California Institute of Technology, Pasadena, California
Assignee: California Institute of Techology, June 1980, 4p., 210/40, C02B1/14, Patent: United-States, 4 209 393, Jan. 1976, Appl. 652 979, June 1980
Report No.: p. 4 209 393

1080 142 Patent, Properties

Fusible surface cladding material
By Larsen, D.G. / Wiggins, T.J. Dunlop South-Africa Limited, Durban, South-Africa
Assignee: Dunlop South-Africa Limited, Feb. 1980, 9p., CL. C08L/, C10C/, Patent: South-Africa, 78/6868, Dec. 1978, Appl. P/78/34088, Feb. 1980
Report No.: p. 78/6868

1080 143 Book, Properties, Gasification, Liquefaction, Combustion

Mathematical modeling and experimental studies of thermal reactions of coal - dissertation
By Jain, R. California Institute of Technology, Pasadena, California
California Institute of Technology, Pasedena, California, 303p., 1980

1080 144 Article, Properties

Comparative analysis of coal fly ash by light and electron microscopy
By Kromka, D.P. / Hayes, T.L. / Lai, C.E. / Fisher, G.L. / Prentice, B.A. University of California, Davis, California
AIChE Symp Ser., Vol. 76, No. 201, p. 149-153, 1980

1080 145 Article, Properties

A rapid method for the determination of uranium in ores and carbonaceous materials by x ray fluorescence spectrometry
By Tolmay, R.T. / Jacobs, J.J.
INIS Atomindex, Vol. 11, No. 22, 18p., 1980

1080 146 Article, Properties

Anomalous coking properties of the Wolgan Seam, NSW Australia
By Creaney, S. / Pearson, D.E. / Marconi, L.G. Institute of Sedimentary and Petroleum Geology, Calgary, Alberta
Fuel, Vol. 59, No. 6, p. 438-440, 1980

1080 147 Article, Properties

Corrections to calorific values of lignites of the Hula Basin, Israel, for contained CaCO//3
By Kafri, U. / Gersh, S. / Dosoretz, C. Geological Survey of Israel, Jerusalem, Israel
Fuel, Vol. 59, No. 11, p. 787-789, 1980

1080 148 Article, Properties, Liquefaction

The degree of reduction of coals from the IR Spectroscopic study of ethanol benzene extracts
By Amarskii, E.G. / Kolodyazhnyi, Y.V. / Lapin, A.A.

Solid Fuel Chem, Vol. 14, No. 3, p. 11-16, 1980

1080 149 Article, Properties, Liquefaction, Gasification

Determination of the amount of water soluble compounds in tars from the thermal treatment of solid fuels
By Melder, L.I. / Purre, T.A. / Arro, Y.V. / Khallik, E.K.
Solid Fuel Chem, Vol. 14, No. 3, p. 62-65, 1980

1080 150 Article, Properties

Determination of the genetic type of anthracites from the index of the anisotropy of the reflection of the vitrinite
By Vol'pova, L.S. / Vyrvich, G.P. / Eremin, I.V. / Ivanov, V.P. / Maloletnev, A.S.
Solid Fuel Chem, Vol. 14, No. 3, p. 5-10, 1980

1080 151 Report, Properties

Characteristics of catalyst impregnated coal samples
By Znaimer, S. / Gubanc, P.F. / Hulseman, R. Oak-Ridge National Laboratory, Oak-Ridge, Tennessee
United-States Department of Energy, 16p., 1980
Report No.: ORNL/MIT-317

1080 152 Article, Properties

A review of the vapour phase cracking of coal derived materials and some model compounds to BTX
By Ladner, W.R. / Newman, J.O. / Sage, P.W. National Coal Board, Cheltenham, Gloucestershire, United-Kingdom
J Inst Energy, Vol. 53, No. 415, p. 76-84, June 1980

1080 153 Report, Properties

Nuclear assay of coal - Volume 1: Coal composition by prompt neutron activation analysis - Basic Experiments
By Reynolds, G. / Bozorgmanesh, H. / Elias, E. / Gozani, T. / Maung, T. / Orphan, V. Science Applications, Inc., Palo-Alto, California
Electric Power Research Institute, 80p., 1980
Report No.: EPRI-CS-989

1080 154 Report, Properties

Nuclear assay of coal - Volume 2: Coal composition determination by prompt neutron activation analysis - Theoretical modeling
By Elias, E. / Gozani, T. Science Applications, Inc., Palo-Alto, California
Electric Power Reserach Institute, 44p., 1980
Report No.: EPRI-CS-989

1080 155 Report, Properties, Combustion

Nuclear assay of coal - Volume 3: Determination of total hydrogen content of coal by nuclear technique
By Gozani, T. / Elias, E. / Bozorgmanesh, H. Science Applications, Inc., Palo-Alto, California
Electric Power Research Institute, 26p., 1980
Report No.: EPRI-CS-989

1080 156 Report, Properties

Nuclear assay of coal - Volume 4: Moisture determination in coal - Survey of electromagnetic techniques
By Brown, D.R. / Gozani, T. / Bozorgmanesh, H. Science Applications, Inc., Palo-Alto, California
Electric Power Reserach Institute, 60p., 1980
Report No.: EPRI-CS-989

1080 157 Patent, Properties

Removal of metals and coke during thermal hydrocracking of heavy hydrocarbon oils
By Ternan, M. / Parsons, B.I. Energy Mines and Resources, Ottawa, Ontario
Assignee: Energy Mines and Resources, March 1980, 22p., C10G 13/24, 1/06, Patent: Canada, 1 073 389, Dec 1976, Appl. 269 020, March 1980

1080 158 Article, Properties

Influence of the form of binding of carbon, hydrogen, and oxygen in coals on their tendency to undergo reduction
By Ekaterinina, L.N. / Khrenkova, T.M. / Motovilova, L.V. / Dolmatova, A.G. / Goldenko, N.L. / Yashina, T.N. / Zharova, M.N.
Solid Fuel Chem, Vol. 14, No. 3, p. 40-44, 1980

1080 159 Article, Properties, Liquefaction

Influence of the preliminary treatment of coals with hydrocarbon vapors on the yield of the products of their thermal degradation in a centrifugal field
By Baranova, N.V. / Glushchenko, I.M.
Solid Fuel Chem, Vol. 14, No. 3, p. 53-56, 1980

1080 160 Article, Properties

The interaction of a coal mass undergoing coking with refractory materials
By Karpov, A.V. / Skiyar, M.G.
Solid Fuel Chem, Vol. 14, No. 3, p. 69-73, 1980

1080 161 Article, Properties

Interaction of coal graphite materials with carbon dioxide in the temperature range of 1500 2500 deg K
By Khaustovich, G.P. / Lebedev, A.E.

Solid Fuel Chem, Vol. 14, No. 3, p. 106-111, 1980

1080 162 Article, Properties, Combustion, Gasification

An investigation of the behavior of the sulfur and phosphorus of some solid fuels during their pyrolysis and oxidation
By Bruer, G.G. / Kazakov, E.I. / Kudryavtsev, V.S.
Solid Fuel Chem, Vol. 14, No. 3, p. 47-52, 1980

1080 163 Article, Properties

Dimensional and structural changes of pyrocarbon on heat treatment
By Shmakova, E.S. / Lebedev, Y.N. / Mikhin, Y.I. / Nagornyi, V.G. / Lyukshin, E.N.
Solid Fuel Chem, Vol. 14, No. 2, p. 78-81, 1980

1080 164 Article, Properties

Electronic reduction of coal by alkali metals
By Nosyrev, I.E. / Kochkanyan, R.O. / Baranov, S.N.
Solid Fuel Chem, Vol. 14, No. 3, p. 36-39, 1980

1080 165 Article, Properties, Combustion

A study of the structure of the solid residues formed in the oxidative pyrolysis of primary coal tars
By Bronshtein, A.P. / Bunkina, N.A. / Makorov, G.M. / Turbinskii, M.G. / Blank, N.B. / Bogoyavlenskaya, M.L.
Solid Fuel Chem, Vol. 14, No. 2, p. 17-21, 1980

1080 166 Article, Properties, Gasification

Solubility of the products of thermal degradation of modified brown coals
By Gankina, L.V. / Sukhov, V.A. / Lukovnikov, A.F.
Solid Fuel Chem, Vol. 14, No. 2, p. 47-51, 1980

1080 167 Article, Properties

The color of the microcomponents as an index of the chemical and technological properties of coals
By Babenko, V.P.
Solid Fuel Chem, Vol. 14, No. 3, p. 17-22, 1980

1080 168 Article, Properties

Analysis of the structure of the charge of byproduct coke works according to the parameters of a petrological geochemical classification of coals
By Eremin, I.V. / Tsikarev, D.A. / Suprunenko, O.I. / Musyal, S.A. / Limonova, V.Y.

Solid Fuel Chem, Vol. 14, No. 2, p. 72-77, 1980

1080 169 Article, Properties

Organic structural studies of lignite coal tars
By Miller, D.J. / Olson, J.K. / Schobert, H.H. United-States Department of Energy, Grand-Forks, North-Dakota
Am Chem Soc Div Fuel Chem Preprint, Vol. 25, No. 1, p. 256-263, 1980

1080 170 Article, Properties

Photoelectric effect in coals
By Lizun, S.A. / Petkevich, G.I. / Sizonenko, V.S. / Furtak, S.P.
Solid Fuel Chem, Vol. 14, No. 2, p 8-11, 1980

1080 171 Article, Properties

Physicochemical properties of lean coal as a carbonaceous reducing agent
By Strakhov, V.M. / Gaiduchenko, N.S. / Makarov, G.N. / Mizin, V.G. / Men'shenin, V.M.
Solid Fuel Chem, Vol. 14, No. 2, p. 1-7, 1980

1080 172 Article, Properties

The mechanism of the thermochemical transformations of coals
By Biryukov, Y.V. / Kotelevskii, N.M. / Nesterenko, L.L. / Yurin, A.L.
Solid Fuel Chem, Vol. 14, No. 2, p. 41-46, 1980

1080 173 Article, Properties, Geology

A method of determining the carbon content of coals from the Gamma radiation of the nonelastic scattering of fast neutrons
By Pak, Y.N. / Starchik, L.P.
Solid Fuel Chem, Vol. 14, No. 3, p. 116-118, 1980

1080 174 Article, Properties, Geology

Microstructural studies of chlorine in some British coals
By Saunders, K.G. Central Electricity Research Laboratories, Leatherhead, United-Kingdom
J Inst Energy, Vol. 53, No. 416, p. 109-115, Sept. 1980

1080 175 Article, Properties

The nonlinearity of the volt ampere characteristics of anthracites
By Okorochkov, A.I. / Pavlinov, A.B. / Posyl'nyi, V.Y.
Solid Fuel Chem, Vol. 14, No. 3, p. 45-46, 1980

1080 176. Article, Properties

An energy saving separation scheme
By Neuzil, R.W. / Rosback, D.H. / Jensen, R.H. / Teague, J.R. / deRosset, A.J.
Chemtech, Vol. 10, No. 8, p. 498-503, Aug. 1980

1080 177 Article, Properties

Frequency dependence of the dielectric properties of coal
By Nelson, S.O. / Fanslow, G.E. / Bluhm, D.D.
J. Microwave Power, Vol. 15, No. 4, p. 277-282, 1980

1080 178 Article, Properties

Dielectric heating of mixtures containing coal and pyrite
By Fanslow, G.E. / Bluhm, D.D. / Nelson, S.O. Iowa State University, Ames, Iowa
J Microwave Power, Vol. 15, No. 3, p. 187-191, 1980

1080 179 Article, Properties

IR spectroscopy of coal. Distortions of the spectra of coals in tablets with potassium bromide
By Likhtenshtein, V.I. / Popov, V.K. / Rus'yanova, N.D.
Solid Fuel Chem, Vol. 14, No. 4, p. 14-18, 1980

1080 180 Article, Properties

Production of shaped metallurgical coke under conditions of gaseous pressure
By Drakin, L.A. / Dzhaparidze, P.N. / Gamkrelidze, N.V.
Solid Fuel Chem, Vol. 14, No. 4, p. 24-28, 1980

1080 181 Article, Properties

The thermolelectric properties of anthracites
By Lapin, A.A. / Gaidukova, S.V. / Pereverzev, G.A. / Amarskii, E.G.
Solid Fuel Chem, Vol. 14, No. 4, p. 31-36, 1980

1080 182 Article, Properties

An investigation of coal fractions isolated by extraction with dimethylformamide
By Ekaterinina, L.N. / Motovilova, L.V. / Dolmatova, A.G. / Khrenkova, T.M. / Lubovik, V.I. / Zharova, M.N.
Solid Fuel Chem, Vol. 14, No. 4, p. 47-52, 1980

1080 183 Article, Properties

Features of the conditions for the formation of a carbonaceous material with a furnan binder
By Kostikov, V.I. / Samsonova, L.S. / Butyrin, G.M. / Lukina, E.Y. / Avramenko, P.Y.
Solid Fuel Chem, Vol. 14, No. 4, p. 83-87, 1980

1080 184 Article, Properties

Adsorption of aniline from aqueous solutions of weakly metamorphosed coal
By Przhegorlinskaya, R.V. / Galukhina, T.E. / Kovaleva, I.B.
Solid Fuel Chem, Vol. 14, No. 4, p. 130-132, 1980

1080 185 Article, Properties

Influence of the mechanochemical oxidation of coke pitch compositions on the specific electrical resistance of carbon materials
By Filimonov, V.A. / Avramenko, P.Y. / Gilyazetdinova, V.S. / Martynov, A.P. / Pereverzentsev, V.P. / Syskov, K.I.
Solid Fuel Chem, Vol. 14, No. 4, p. 77-80, 1980

1080 186 Report, Properties

The effects of preoxidation on the swelling and softening of bituminous coals
By Maloney, D.J. / Jenkins, R.G. / Walker, P.L. Pennsylvania State University, University-Park, Pennsylvania
United-States Department of Energy, 128p., April 1980
Report No.: FE-2030-TR20

1080 187 Report, Properties

Evaluation of an automated reflectance microscope system for coal characterization
By Liscinsky, D.S. / Vastola, F. Pennsylvania State University, University-Park, Pennsylvania
United-States Department of Energy, 68p., Jan. 1980
Report No.: FE-2030-TR18

1080 188 Article, Properties

The reductive depolymerization of coal
By Beranov, S.N. / Kochkanyan, R.O. / Nosyrev, I.E.
Solid Fuel Chem, Vol. 14, No. 6, p. 70-76, 1980

1080 189 Article, Properties

Prerequisites for the selection of the optimum structure of a scheme of separating the liquid products of the chemical processing of solid fuels

By Zykov, D.D. / Kulagina, L.A. / Bugrov, Y.M.
Solid Fuel Chem, Vol. 14, No. 6, p. 81-85, 1980

1080 190 Conference proceedings, Properties, Mining

Compressive strength of a bituminous coking coal
By Udd, J.E. / Hudson, K. / Templeton, D. McGill University, Montreal, Quebec
Proc Symp Rock Mech 21st, Rock Mech: A State of the Art, University of Missouri, Rolla, Missouri, May 28-30, 1980, p. 468-475, 1980

1080 191 Article, Properties

Correlation between electrode potentials and floatabilities of Donbas coals
By Lopanov, A.N. / Zubkova, Y.N.
Coke Chem (USSR), No. 7, p. 9-11, 1980

1080 192 Article, Properties

Characterization of coals by infrared spectroscopy
By Benedetti, E. / D'Alessio, A. / Vergamini, P. / Pennacchi, A. / Ghetti, P. / Ghelardi, P. University of Pisa, Pisa, Italy
Riv Combust, Vol. 34, No. 9-12, p. 394-402, 1980

1080 193 Report, Properties

The separation and structure elucidation of coal molecule fragments, Final report, February 1, 1976 - August 31, 1979
By Schultz, R.V. / Jorgenson, J.W. / Maskarinec, M.P. / Kump, R.L. / Marli, F. / Novotny, M. / Todd, L.J. Indiana University, Bloomington, Indiana
United-States Department of Energy, 23p., 1980
Report No.: DOE/EV/2856-5

1080 194 Conference proceedings, Properties

Model structure for a bituminous coal
By Heredy, L.A. / Wender, I. Rockwell International, Canoga-Park, California
Prepr Pap Am Chem Soc Div Fuel Chem, Vol. 25, No. 4, p. 38-45, 1980

1080 195 Conference proceedings, Properties

The application of fourier transform infrared spectroscopy to the characterization of coal structure
By Painter, P.C. / Snyder, R.W. Pennsylvania State University, University-Park, Pennsylvania
Prepr Pap Am Chem Soc Div Fuel Chem, Vol. 25, No. 4, p. 46-57, 1980

1080 196 Conference proceedings, Properties

The nature and composition of coal humic acids
By Swadesh, R. Ebasco Services Inc., New-York, New-York
Prepr Pap Am Chem Soc Div Fuel Chem, Vol. 25, No. 4, p. 48-66, 1980

1080 197 Conference proceedings, Properties

Insights into the chemical structure of coal from the nature of extracts
By Ladner, W.R. / Martin, T.G. / Snape, C.E. / Bartle, K.D. National Coal Board, Cheltenham, Gloucestershire, United-Kingdom
Prepr Pap Am Chem Soc Div Fuel Chem, Vol. 25, No. 4, p. 67-78, 1980

1080 198 Article, Properties

Properties of cokes from mixtures of coals of the Donets and Karaganda Basins
By Panchenko, N.I. / Glushchenko, I.M. / Mel'nichuk, A.Y. / Kaftan, Y.S.
Solid Fuel Chem, Vol. 14, No. 5, p. 98-101, 1980

1080 199 Article, Properties

The IR spectroscopy of coals. Influence of fillers on the nature of the IR spectra
By Likhtenshtein, V.I. / Popov, V.K.
Solid Fuel Chem, Vol. 14, No. 5, p. 33-36, 1980

1080 200 Article, Properties

Differentiation of the coals of the Donbass with respect to the intensity of heat evolution in oxidizing processes
By Reznik, M.G. / Goryushkin, V.F. / Cherkhovskoi, B.Y. / Zhislina, I.L. / Kaplan, S.A. / Sopova, O.O.
Solid Fuel Chem, Vol. 14, No. 5, p. 37-44, 1980

1080 201 Article, Properties

Heat transfer coefficients of the mass being coked in industrial coking
By Mamrosov, A.D. / Kir'yakov, D.I. / Kuprienko, I.G. / Khanin, I.M.
Solid Fuel Chem, Vol. 14, No. 5, p. 56-61, 1980

1080 202 Article, Properties

A study of the supermolecular structure of carbonaceous materials
By Kurolenkin, E.I. / Virgil'ev, Y.S.
Solid Fuel Chem, Vol. 14, No. 5, p. 66-74, 1980

1080 203 Article, Properties

Attempts to use the concept of hard and soft acids and bases for evaluating the distribution of metals in combustible minerals
By Kizil'shtein, L.Y.
Solid Fuel Chem, Vol. 14, No. 5, p. 94-97, 1980

1080 204 Article, Properties, Environment

Results of industrial trials on the elimination of petroleum products from industrial effluents with natural coals
By Ettinger, I.L. / Radchenko, S.A. / Shlapakova, E.I.
Solid Fuel Chem, Vol. 14, No. 5, p. 123-125, 1980

1080 205 Article, Properties

The study of the structure of coals by nuclear magnetic resonance
By Bineev, E.A.
Solid Fuel Chem, Vol. 14, No. 5, p. 1-4, 1980

1080 206 Article, Properties

A study of the influence of carbonaceous rocks on the oxidation of Chernogorsk coal
By Kamneva, A.I. / Aleksandrov, I.V. / Voitkovskii, Y.B. / Denisenko, V.I. / Smutkina, Z.S. / Cherkes, I.D.
Solid Fuel Chem, Vol 14, No. 5, p. 13-17, 1980

1080 207 Article, Properties

Degree of oxidation of Irsha Borodino brown coal and reactivity of the products of its thermal treatment
By Frolova, N.V. / Smutkina, Z.S. / Klinkova, V.V. / Egorova, T.F. / Ekaterinina, L.N. / Dolmatova, A.G. / Skripchenko, G.B.
Solid Fuel Chem, Vol. 14, No. 5, p. 28-32, 1980

1080 208 Article, Geology

Petrographic compositions of coal dust fractions from some brown coals
By Potekhin, G.A. / Dubrovskii, V.A.
Solid Fuel Chem, Vol. 14, No. 5, p. 10-12, 1980

1080 209 Article, Properties

Forms of sulfur in East Texas lignitic coal
By Arora, H.S. / Pugh, C.E. / Hossner, L.R. / Dixon, J.B. Oak-Ridge National Laboratory, Oak-Ridge, Tennessee
J Environ Qual, Vol. 9, No. 3, p. 383-386, 1980

1080 210 Article, Properties

Chemical analyses of coal from Emery and Ferron sandstone members of Mancos shale, Henry Mountains Field, Wayne and Garfield Counties, Utah
By Hatch, J.R. / Affolter, R.H. / Law, B.E. United-States Geological Survey, Denver, Colorado
Utah Geol Assoc Publ, No. 8, p. 337-342, 1980

1080 211 Report, Properties

Coke and coal chemicals in 1978

United-States Department of Energy, 24p., 1980
Report No.: DOE/EIA-0120(78)

1080 212 Article, Properties

Purification of coal tar in an electric field
By Korzh, A.F. / Nesmashnyi, L.A. / Solov'ev, G.D.
Coke Chem (USSR), No. 10, p. 50-52, 1980

1080 213 Article, Properties

Rectification of coal tar anthracene fraction
By Pavlovich, O.N. / Lekhova, G.B. / Kharlampovich, G.D.
Coke Chem (USSR), No. 12, p. 53-58, 1980

1080 214 Article, Properties, Liquefaction

Structural analysis of quinoline and pyridine extracts of coal
By Iwata, K. / Itoh, H. / Ouchi, K.
Fuel Process Technol, Vol. 3, p. 25-38, 1980

1080 215 Article, Properties

Determination of hydroxyl groups in coals
By Nechaeva, O.V. / Likhtenshtein, V.I. / Popov, V.K.

Coke Chem (USSR), No. 9, p. 5-8, 1980

1080 216 Article, Properties

Microwave moisture determination of coal - a comparison of attenuation and phase measurement
By Klein, A. Bergbau-Forschung GmbH, Essen, Germany
Conf Proc Eur Microwave Conf 10th Warsaw, Poland, Sept 8-12, 1980, publ by Microwave Exhib and Publ Ltd., Sevenoaks, Kent, p. 526-530, 1980

1080 217 Article, Properties

Organic compounds in coal: structure and origins
By Baset, Z.H. / Pancirov, R.J. / Ashe, T.R. Exxon Research and Engineering Company, Linden, New-Jersey
Phys Chem Earth, Vol. 12, p. 619-630, 1980

1080 218 Article, Properties

Nickel in coal and fly ash
By Swaine, D.J. CSIRO, Fuel Geoscience Unit, North-Ryde, Australia
Nickel Environ, p. 67-92, 1980

1080 219 Report, Properties, Beneficiation, Transportation

A state of the art assessment of heat transfer equipment
By Gambill, W.R. Oak-Ridge National Laboratory, Oak-Ridge, Tennessee
United-States Department of Energy, 20p., 1980
Report No.: DOE/TIC-11300

1080 220 Report, Properties

The development and evaluation of an automated reflectance microscope system for the petrographic characterization of bituminous coals
By Hoover, D.S. / Davis, A. Pennsylvania State University, University-Park, Pennsylvania
United-States Department of Energy, 261p., Oct. 1980
Report Nc.: FE-2030-TR23

1080 221 Article, Properties

A short note on the suitability of high viscous grade fuel oil for blending coal tar creosote for preservative treatment of timber
By Jain, J.K. / Kumar, S. Forest Research Institute, Dehra-Dun, India
J Timb Dev Assoc (India), Vol. XXVI, No. 1, p. 5-11, 1980

1080 222 Article, Properties

Average chemical structure of mild hydrogenolysis products of coals
By Iwata, K. / Itoh, H. / Ouchi, K. Hokkaido University, Sapporo, Japan
Fuel Process Technol, Vol. 3, No. 3-4, p. 221-229, Aug. 1980

1080 223 Article, Properties, Liquefaction

14 MeV INAA nitrogen determination in coal conversion liquids
By Ehmann, W.D. / Khalil, S.R. / Koppenaal, D.W. University of Kentucky, Lexington, Kentucky
J Radioanal Chem, Vol. 59, No. 2, p. 407-414, 1980

1080 224 Article, Properties, Environment

Chemical characterization of mutagenic nitrogen containing polycyclic aromatic hydrocarbons in fossil fuels
By Buchanan, M.V. / Ho, C. / Guerin, M.R. / Clark, B.R. Oak-Ridge National Laboratory, Oak-Ridge, Tennessee
Chem Anal and Biol Fate, Polynucl Aromat Hydrocarbons, Int Symp, 5th, p. 133-144, 1981

1080 225 Article, Properties

Coal characterization research: sample selection, preparation, and analyses
By Neavel, R.C. / Hippo, E.J. / Smith, S.E. / Miller, R.N. Exxon Research and Engineering Company, Baytown, Texas
Prepr Pap, Am Chem Soc, Div Fuel Chem, Vol. 25, No. 3, p. 246-257, 1980

1081 0 Conference proceedings, Properties

The nature of coal and coal seams
By Spackman, W. Pennsylvania State University, University-Park, Pennsylvania
Coal Characteristics and Coal Utilization Conference, Pennsylvania State University, 9p., June 1981

1081 1 Conference proceedings, Properties

Fourier transform infrared spectroscopy as a tool in coal research
By Painter, P.C. Pennsylvania State University, University-Park, Pennsylvania
Coal Characteristics and Coal Utilization Conference, Pennsylvania State University, 58p., June 1981

1081 2 Conference proceedings, Properties, Geology

Mineral matter in coals
By Davis, A. Pennsylvania State University, University-Park, Pennsylvania
Coal Characteristics and Coal Utilization Conference, Pennsylvania State University, 20p., June 1981

1081 3 Conference proceedings, Properties

Pyrolysis of coal as an analytical tool
By Meuzelaar, H.L. University of Utah, Salt-Lake-City, Utah
Coal Characteristics and Coal Utilization Conference, Pennsylvania State University, 27p., June 1981

1081 4 Conference proceedings, Properties, Combustion

Coal pyrolysis - fundamentals pertinent to coal utilization
By Howard, J.B. Massachusetts Institute of Technology, Cambridge, Massachusetts
Coal Characteristics and Coal Utilization Conference, Pennsylvania State University, 69p., June 1981

1081 5 Article, Properties

Microporosity in coal: its characterization and its implication for coal utilization
By Walker, P.L. Pennsylvania State University, University-Park, Pennsylvania
Phil. Trans. R. Soc. Lond., Vol. 300, p. 65-81, 1981

1081 6 Article, Properties

Fourier transform infrared spectrometric detection in size exclusion chromatographic separation of polar synfuel material
By Brown, R.S. / Hausler, D.W. / Taylor, L.T. / Carter, R.C. Virginia Polytechnic Institute and State University, Blacksburg, Virginia
Anal Chem, Vol. 53, No. 2, p. 197-201, 1981

1081 7 Article, Properties

Coal. Kinetics of O Alkylation
By Liotta, R. / Brons, G. Exxon Research and Engineering Company, Linden, New-Jersey
J Am Chem Soc, Vol. 103, No. 7, p. 1735-1742, 1981

1081 8 Article, Properties

A Fourier transform infrared study of mineral matter in coal: The application of a least squares curve fitting program
By Painter, P.C. / Rimmer, S.M. / Snyder, R.W. / Davis, A.
Appl Spectrosc, Vol. 35, No. 1, p. 102-106, Jan. 1981

1081 9 Article, Properties, Combustion

Low temperature air oxidation of caking coals: Fourier transform infrared studies
By Painter, P.C. / Coleman, M.M. / Snyder, R.W. / Mahajan, O.P. / Komatsu, M. / Walker, P.L. Pennsylvania State University, University-Park, Pennsylvania
Appl Spectrosc Vol. 35, No. 1, p. 106-110, 1981

1081 10 Article, Properties, Liquefaction

Liquid chromatographic separation of alkylphenols with fluorescence and ultraviolet detection
By Ogan, K. / Katz, E. Perkin-Elmer Corporation, Norwalk, Connecticut
Anal Chem, Vol. 53, No. 2, p. 160-163, 1981

1081 11 Article, Properties, Beneficiation, Liquefaction

Medium resolution mass spectrometry as a nitrogen compound specific detector
By Gallegos, E.J. Chevron Research Company, Richmond, California
Anal Chem, Vol. 53, No. 2, p. 187-189, 1981

1081 12 Article, Properties, Liquefaction

Simple scheme for the estimation of concentrations of polycyclic aromatic hydrocarbons in tars
By Kleffner, H.W. / Talbiersky, J. / Zander, M.
Fuel, Vol. 60, No. 4, p. 361-362, 1981

1081 13 Article, Properties, Liquefaction

Kinetic study of the depolymerization of Bruceton coal
By Larsen, J.W. / Urban, L. / Lawson, G. / Lee, D. University of Tennessee, Knoxville, Tennessee
Fuel, Vol. 60, No. 3, p. 267-271, March 1981

1081 14 Article, Properties

Study of the relation between the phosphorus content of coal and coke
By Mahony, B. / Moulson, I. / Wilkinson, H.C. British Carbonization Research Association, Chesterfield, Derbyshire, United-Kingdom
Fuel, Vol. 60, No. 4, p. 355-358, 1981

1081 15 Article, Properties, Liquefaction

Analysis of coal and coal derived products
By Stadelhofer, J.W. / Bartle, K.D. / Matthews, R.S. University of Leeds, Leeds, United-Kingdom
Erdoel Kohle, Erdgas, Petrochem, Vol. 34, No. 2, p. 71-76, 1981

1081 16 Article, Properties, Liquefaction

Chemical structure of coal and mechanism of its extraction
By Marzec, A. / Sobkowiak, M. Polish Academy of Sciences, Maja, Poland
Erodel Kohle, Erdgas, Petrochem, Vol. 34, no. 1, p. 38, 1981

1081 17 Article, Properties

Classification of bituminous coals: Application of the technique of optimal sections in coal classification
By Peng, C. Beijing Research Institute of Coal Chemistry, Beijing, China
Energy (Oxford), Vol. 6, No. 1, p. 47-60, Jan. 1981

1081 18 Article, Properties

Centrifuge modeling of coal waste embankments
By Al-Hussaini, M.M. / Goodings, D.J. / Schofield, A.N. / Townsend, F.C.
J Geotech Eng Div, p. 481-499, April 1981

1081 19 Article, Properties

Compositional studies of coal tar by capillary gas chromatography/mass spectrometry
By Novotny, M. / Strand, J.W. / Smith, S.L. / Wiesler, D. / Schwende, F.J. Indiana University, Bloomington, Indiana
Fuel, Vol. 60, No. 3, p. 213-220, March 1981

1081 20 Article, Properties, Combustion

Correlation of coal volatile yield with oxygen and aliphatic hydrogen
By Solomon, P.R. / Hobbs, R.H. / Hamblen, D.G. / Chen, W.Y. / Cara, A. La / Graff, R.S. United Technologies Research Center, East-Hartford, Connecticut
Fuel, Vol. 60, No. 4, p. 342-346, 1981

1081 21 Article, Properties

Hydrogenolysis and the isolation of structural units of coal
By Ghosh, G. / Sanyal, P. / Mazumdar, B.K. Central Fuel Research Institute, Bihar, India
Fuel, Vol. 60, No. 6, p. 545-546, 1981

1081 22 Article, Properties

Effect of O alkylation on the caking properties of coal
By Liotta, R. Exxon Research and Engineering Company, Linden, New-Jersey
Fuel, Vol. 60, No. 5, p. 453-454, 1981

1081 23 Article, Properties

Effect of surfaces on the yield of volatiles from coal
By Scaroni, A.W. / Walker, P.L. / Jenkins, R.G. Pennsylvania State University, University-Park, Pennsylvania
Fuel, Vol. 60, No. 6, p. 558-559, 1981

1081 24 Article, Properties

Expressing the results of analysis of low rank coal
By Gray, V.R. Coal Research Association, Wellington, New-Zealand
Fuel, Vol. 60, No. 4, p. 362-364, 1981

1081 25 Article, Properties, Liquefaction

Determination of viscoelastic properties of pitches by torsional creep
By Sakai, M. / Inagaki, M. Toyohashi University of Technology, Toyohashi, Japan
Carbon, Vol. 19, No. 1, p. 37-43, 1981

1081 26 Article, Properties, Combustion

Investigation of aqueous sodium dichromate oxidation for coal structural studies
By Hayatsu, R. / Winans, R.E. / Scott, R.G. / McBeth, R.L. / Moore, L.P. Argonne National Laboratory, Argonne, Illinois
Fuel, Vol. 60, No. 1, p. 77-82, Jan. 1981

1081 27 Article, Properties

Is kerogen like material present in coal? 1. Buffer controlled permanganate oxidation of coal
By Hayatsu, R. / Winans, R.E. / Scott, R.G. / McBeth, R.L. Argonne National Laboratory, Argonne, Illinois
Fuel, Vol. 60, No. 2, p. 158-161, 1981

1081 28 Article, Properties

Is kerogen like material present in coal? 2. Chromic acid oxidation of coal and kerogen
By Hayatsu, R. / Winans, R.E. / Scott, R.G. / McBeth, R.L. / Vandegrift, G.F. Argonne National Laboratory, Argonne, Illinois
Fuel, Vol. 60, No. 2, p. 161-163, 1981

1081 29 Article, Properties

Linear alkane chains in coals
By Deno, N.C. / Curry, K.W. / Jones, A.D. / Keegan, K.R. / Rakitsky, W.G. / Richter, C.A. / Minard, R.D. Pennsylvania State University, University-Park, Pennsylvania
Fuel, Vol. 60, No. 3, p. 210-212, March 1981

1081 30 Article, Properties, Combustion, Liquefaction

Low temperature dissolution of coal
By Merriam, J.S. / Hamrin, C.E. University of Kentucky, Lexington, Kentucky
Fuel, Vol. 60, No. 6, p. 542-543, 1981

1081 31 Article, Properties

Microscopy study of bonding in co carbonizations between coke grist from coal extract solution and coal tar binder
By Marsh, H. / Sherlock, J. University of Newcastle-upon-Tyne, Newcastle-upon-Tyne, United-Kingdom
Fuel, Vol. 60, No. 5, p. 434-438, 1981

1081 32 Article, Properties, Liquefaction

Molecular components of coal and coal structure
By Bodzek, D. / Marzec, A. Polish Academy of Sciences, Gliwice, Poland
Fuel, Vol. 60, No. 1, p. 47-51, Jan. 1981

1081 33 Article, Properties

Phillips' computer system for pilot plants
By Anderson, P.D. Phillips Petroleum Company, Bartlesville, Oklahoma
Chem Eng Prog, p. 33-35, Aug. 1981

1081 34 Article, Properties

Reliability of determinations of pyritic iron in coals using standard procedures
By Suhr, N. / Given, P.H. Pennsylvania State University, University-Park, Pennsylvania
Fuel, Vol. 60, No. 6, p. 541-542, 1981

1081 35 Article, Properties

Semi quantitative ESCA examination of coal and coal ash surfaces
By Brown, J.R. / Kronberg, B.I. / Fyfe, W.S. University of Western Ontario, London, Ontario
Fuel, Vol. 60, No. 5, p. 439-446, 1981

1081 36 Article, Properties

Preparative gel permeation chromatography of coal derived products
By Schanne, L. / Haenel, M.W.
Fuel, Vol. 60, No. 6, p. 556-558, 1981

1081 37 Article, Properties

H nuclear spin lattice relaxation in coal during heating
By Webster, D.S. / Lynch, L.J. CSIRO, Physical Technology Unit, North-Ryde, Australia
Fuel, Vol. 60, No. 6, p. 549-551, 1981

1081 38 Article, Properties

Pyrolysis of benzyl ether under hydrogen starvation conditions
By Schlosberg, R.H. / Ashe, T.R. / Pancirov, R.J. / Donaldson, M. Exxon Research and Engineering Company, Linden, New-Jersey
Fuel, Vol. 60, No. 2, p. 155-157, Feb. 1981

1081 39 Article, Properties

Relation between coal aromatic carbon concentration and proximate analysis fixed carbon
By Solomon, P.R. United Technologies Research Center, East-Hartford, Connecticut
Fuel, Vol. 60, No. 1, p. 3-6, 1981

1081 40 Patent, Properties

Method for the regeneration of spent molten zinc chloride
By Zielke, C.W. / Rosenhoover, W.A. Conoco Inc., Stamford, Connecticut
Assignee: Conoco Inc., March, 1981, 5p., 252/415, B01J27/32, Patent: United-States, 4 257 914, March 1981, Appl. 102 164, March 1981
Report No.: p. 4 257 914

1081 41 Article, Properties

Identification of straight chain fatty acids in coal extracts and their geochemical relation with straight chain alkanes
By Snape, C.E. / Stokes, B.J. / Bartle, K.D. National Coal Board, Cheltenham, Gloucestershire, United-Kingdom
Fuel, Vol. 60, No. 10, p. 903-908, Oct. 1981

1081 42 Article, Properties

Changes in vitroplast derived from a high volatile bituminous coal during tetralin treatment
By Shibaoka, M. CSIRO, Division of Fossil Fuels, North-Ryde, Australia
Fuel, Vol. 60, No. 10, p. 945-950, Oct. 1981

1081 43 Article, Properties, Environment

Interaction of iron with humic acid extracted from lignite
By Baruah, M.K. / Upreti, C. / Baishya, N.K. / Dutta, S.N. Regional Research Laboratory, Jorhat, Assam, India
Fuel, Vol. 60, No. 10, p. 971-974, Oct. 1981

1081 44 Article, Properties

E.s.r. measurements on asphaltene and resin fractions from various separation methods
By Schultz, K.F. / Selucky, M.L. Alberta Research Council, Edmonton, Alberta
Fuel, Vol. 60, No. 10, p. 951-956, Oct. 1981

1081 45 Article, Properties, Geology

Chemical and mineralogical differences between Kittanning coals from marine influenced versus fluvial sequences
By Bailey, A. Marshall University, Huntington, West-Virginia
J Sediment Petrol, Vol. 51, No. 2, p. 383-395, 1981

1081 46 Article, Properties, Transportation, Energy Policy

Ultransonics beam in on process control

Chem Eng, p. 45-47, July 1981

1081 47 Article, Properties

Alkylbenzenes derived from carotenes in coals by GC/MS
By Gallegos, E.J. Chevron Research Company, Richmond, California
J Chromatogr Sci, Vol. 19, No. 4, p. 177-182, 1981

1081 48 Article, Properties

Amino acids in humic, nitrohumic and nitrofuvic acids from coal
By Moliner, R. / Gavilan, J.M. Instituto de Carboquimica, Zaragoza, Spain
Fuel, Vol. 60, No. 1, p. 64-66, 1981

1081 49 Article, Properties

Analysis of pyridine bases isolated from a high temperature coal tar by capillary gas chromatography
By Macak, J. / Nabivach, V.M. / Buryan, P. / Berlizov, J.S. Institute of Chemical Technology, Prague, Czechoslovakia
J Chromatogr, Vol. 209, No. 3, p. 472-475, 1981

1081 50 Article, Properties

Application of vitrinite reflectance anisotropy in the evaluation of coal metamorphism
By Hower, J.C. / Davis, A. University of Kentucky, Lexington, Kentucky
Geol Soc Am Bull, Vol. 92, Iss. 6, p. 350-366, June 1981

1081 53 Article, Properties, Liquefaction

Calculation of kinetic parameters for the deactivation of heterogeneous catalyst
By Romero, A. / Bilbao, J. / Gonzalez-Velasco, J.R. Universidad del Pais Vasco, Bilbao, Spain
Ind Eng Chem, Proc Des Dev, Vol. 20, No. 3, p. 570-575, 1981

1081 54 Article, Properties

Capillary gas chromatography of aromatic compounds
By Gerasimenko, V.A. / Kirilenko, A.V. / Nabivach, V.M. Institute of Chemical Technology, Dniepropetrovsk, USSR
J Chromatogr., Vol. 208, No. 1, p. 9-16, 1981

1081 55 Article, Properties, Geology

C n.m.r. as a probe for the characterization of the low temperature oxidation of coal
By MacPhee, J.A. / Nandi, B.N. Energy Research Laboratories, Ottawa, Ontario
Fuel, Vol. 60, No. 2, p. 169-170, 1981

1081 56 Article, Properties, Gasification, Liquefaction

Carbonylation studies with Illinois No. 6 bituminous coal
By Duty, R.C. / Hussmann, G.P. / Austin, J. Illinois State University, Normal, Illinois
Fuel, Vol. 60, No. 1, p. 83-86, 1981

1081 57 Article, Properties, Gasification, Liquefaction

Thermal cracking of coal derived materials to BTX and ethylene
By Bernhardt, R.S. / Ladner, W.R. / Newman, J.O. / Sage, P.W. National Coal Board, Cheltenham, Gloucestershire, United-Kingdom
Fuel, Vol. 60, No. 2, p. 139-144, Feb. 1981

1081 60 Article, Properties

Copolymerization of methylmethacrylate on a ball milled surface of coal at 77 K
By Sakaguchi, M. / Yokono, T. / Sanada, Y. / Shoma, J. / Kashiwabara, H. Hokkaido University, Sapporo, Japan
Fuel, Vol. 60, No. 2, p. 136-138, 1981

1081 61 Report, Properties, Liquefaction

Solvent extraction of coal
By Pullen, J.R. IEA Coal Research, London, United-Kingdom
IEA Coal Research, 124p., 1981
Report No.: ICTIS/TR16

1081 62 Article, Properties

In situ study of the decomposition of pyrite in an oxygen atmosphere
By Shyu, H. / Vaishnava, P.P. / Montano, P.A. West-Virginia University, Morgantown, West-Virginia
Fuel, Vol. 60, No. 11, p. 1022-1026, 1981

1081 63 Article, Properties, Liquefaction

Depolymerization of Turkish lignites. 1. Effect of substituted phenols
By Yurum, Y. / Yiginsu, I. Hacettepe University, Ankara, Turkey
Fuel, Vol. 60, No. 11, p. 1027-1030, 1981

1081 64 Article, Properties, Liquefaction

Depolymerization of Turkish lignites. 2. Effect of phenol concentration in a closed system
By Yurum, Y. Hacettepe University, Ankara, Turkey
Fuel, Vol. 60, No. 11, p. 1031-1038, 1981

1081 65 Article, Properties

New method of calculating calorific values from elemental compositions of fossil fuels
By Jain, S.R. / Sundararajan, R. Indian Institute of Science, Bangalore, India
Fuel, Vol. 60, No. 11, p. 1079-1082, 1981

1081 66 Article, Properties

Mechanism of carbonization of a semi anthracite
By Mochida, I. / Korai, Y. / Fujitsu, H. / Takeshita, K. / Komatsubara, K. / Koba, K. Kyushu University, Fukuoka, Japan
Fuel, Vol. 60, No. 11, p. 1083-1090, 1981

1081 67 Article, Properties

Carbonization behaviour of coal briquettes in a slot type oven
By Okuhara, T. / Nakama, H. / Miura, Y. Nippon Steel Corporation, Kitakyushu, Japan
Fuel, Vol. 60, No. 11, p. 1091-1095, 1981

1081 68 Article, Properties

Possibility of characterization of coal and charge mixture through separation of phases in a heated centrifuge
By Karabon, B. / Ciesielski, B. Politechniki Wroclawsdiej, Wroclaw, Poland
Fuel, Vol. 60, No. 11, p. 1098-1099, 1981

1081 69 Article, Properties, Geology

Carbon 13 CP/MAS spectroscopy of coal macerals
By Zilm, K.W. / Pugmire, R.J. / Larter, S.R. / Allan, J. / Grant, D.M. University of Utah, Salt-Lake-City, Utah
Fuel, Vol. 60, No. 8, p. 717-722, 1981

1081 70 Article, Properties

Carbonization and liquid crystal (mesophase) development. 19. Co carbonization of oxidized coals with model organic compounds
By Yokono, T. / Marsh, H. / Yokono, M. University of Newcastle-upon-Tyne, Newcastle-upon-Tyne, United-Kingdom
Fuel, Vol. 60, No. 6, p. 507-512, 1981

1081 71 Article, Properties

Carbonization and liquid crystal (mesophase) development. 20. Co carbonization of a high volatile caking coal with several petroleum pitches
By Grint, A. / Marsh, H. University of Newcastle-upon-Tyne, Newcastle-upon-Tyne, United-Kingdom
Fuel, Vol. 60, No. 6, p. 513-518, 1981

1081 72 Article, Properties

Carbonization and liquid crystal (mesophase) development. 22. Micro strength and optical textures of cokes from coal pitch co carbonizations
By Ragan, S. / Marsh, H. University of Newcastle-upon-Tyne, Newcastle-upon-Tyne, United-Kingdom
Fuel, Vol. 60, No. 6, p. 522-528, 1981

1081 73 Article, Properties

Characterization of coal and coal derived products by proton spin lattice relaxation
By Chow, C.K. Washington State University, Pullman, Washington
Fuel, Vol. 60, No. 8, p. 749-751, 1981

1081 74 Report, Properties

Concerning the application of FT IR to the study of coal: A critical assessment of band assignments and the application of spectral analysis programs
By Painter, P.C. / Snyder, R.W. / Starsinic, M. / Coleman, M.M. / Kuehn, D.W. / Davis, A. Pennsylvania State University, University-Park, Pennsylvania
Appl Spectrosc, Vol. 35, No. 5, p. 475-485, 1981

1081 75 Article, Properties

Determination of intrinsic viscosity of fractionated pitches and discussion on the shape and size of pitch molecules
By Sakai, M. / Yoshihara, M. / Inagaki, M. Toyohashi University of Technology, Toyohashi, Japan
Carbon, Vol. 19, No. 2, p. 83-87, 1981

1081 76 Article, Properties

Determination of mercury of atomic absorption spectrophotometry

By Wittmann, Z. Hungarian Oil and Gas Research Institute, Veszprem, Hungary
Talanta, Vol. 28, No. 4, p. 271-273, 1981

1081 77 Article, Properties

Background correction in quantitative micelle enhanced room temperature phosphorescence via selective bimolecular quenching
By Love, L.J. / Skrilec, M. Seton Hall University, South-Orange, New-Jersey
Anal Chem, Vol. 53, No. 12, p. 1872-1875, 1981

1081 78 Article, Properties

Carbonization of an anthracene oil extract of Akabira (Japan) coal
By Korai, Y. / Fujitsu, H. / Takeshita, K. / Mochida, I. Kyushu University, Fukuoka, Japan
Fuel, Vol. 60, No. 12, p. 1106-1114, 1981

1081 79 Article, Properties

Carbonization of coal blends: mesophase formation and coke properties
By Grint, A. / Marsh, H. University of Newcastle-upon-Tyne, Newcastle-upon-Tyne, United-Kingdom
Fuel, Vol. 60, No. 12, p. 1115-1120, 1981

1081 80 Article, Properties

Space filling models for coal: a molecular description of coal plasticity
By Spiro, C.L. General Electric Company, Schenectady, New-York
Fuel, Vol. 60, No. 12, p. 1121-1126, 1981

1081 81 Article, Properties

Electrolytic oxidation of anthracite
By Senftle, F.E. / Patton, K.M. / Heard, I. Howard University, Washington, District-of-Columbia
Fuel, Vol. 60, No. 12, p. 1131-1136, 1981

1081 82 Article, Properties, Liquefaction

Aromaticities of various coals measured by reaction with fluorine and TGA DTA studies of the reaction products
By Huston, J.L. / Studier, M.H. Loyola University, Chicago, Illinois
Fuel, Vol. 60, No. 12, p. 1149-1152, 1981

1081 83 Article, Properties

Distribution of water soluble chlorine in coals using stains and acetate peels
By Caswell, S.A. University of Sheffield, Sheffield, United-Kingdom

Fuel, Vol. 60, No. 12, p. 1164-1166, 1981

1081 84 Patent, Properties

Bituminous emulsions
By Van-Reijendam, J.W. Shell International Research, Hague, Netherlands
Assignee: Shell Internationale Research, Feb. 1981, 4p., C08L95/00, Patent: England, 1 584 504, May 1978, Appl. 21048/78, Feb. 1981

1081 85 Patent, Properties

Process for making metallurgical coke using fluidizer char
By Theodore, F.W. / Wasson, G.E. / Jasulaitis, W.A. / Gorin, E. Continental Oil Company, Stamford, Connecticut
Assignee: Continental Oil Company, Feb. 1981, 6p., 201/6, 44/1F, C10B 45/02, Patent: United-States, Aug. 1978, Appl. 934 750 , Feb. 1981

1081 86 Patent, Properties

Handling of solid laden hydrocarbonaceous bottoms in a retort using solid heat carriers
By Wolcott, H.B. Atlantic Richfield Company, Los-Angeles, California
Assignee: Atlantic Richfield Company, Jan. 1981, 4p., 208/8R, C10B 49/16 Patent: United-States, 4 246 093, July 1979, Appl. 61 155, Jan. 1981

1081 87 Article, Properties, Combustion

High temperature Proton NMR study of oxidized coal
By Yokono, T. / Miyazawa, K. / Sanada, Y. / Marsh, H. University of Newcastle-upon-Tyne, Newcastle-Upon-Tyne, United-Kingdom
Fuel, Vol. 60, No. 7, p. 603-606, 1981

1081 88 Article, Properties

Influence of char porosity on strengths of hot briquettes
By Chow, C. / Chaklader, A.C. / Warren, I.H. / Leeder, W.R. University of British-Columbia, Vancouver, British-Columbia
Fuel, Vol. 60, No. 7, p. 635-641, 1981

1081 89 Article, Properties

Infrared spectra of humodetrinite from the Fortuna Garsdorf mine
By Gaines, A.F. / Ozyildiz, G. / Wolf, M. University of Aston, Birmingham, United-Kingdom
Fuel, Vol. 60, No. 7, p. 615-618, July 1981

1081 90 Article, Properties, Liquefaction, Gasification

Effects of calcium minerals on the rapid pyrolysis of a bituminous coal
By Franklin, H.D. / Peters, W.A. / Cariello, F. / Howard, J.B. Massachusetts Institute of Technology, Cambridge, Massachusetts
Ind Eng Chem Process Des Dev., Vol. 20, No. 4, p. 670-674, 1981

1081 91 Article, Properties

ESR spectrometric study of directly prepared potassium coal adducts
By Lazarov, L. / Stefanova, M. Bulgarian Academy of Sciences, Sofia, Bulgaria
Fuel, Vol. 60, No. 8, p. 723-726, 1981

1081 92 Article, Properties

Estimation of vapor pressures of heavy liquid hydrocarbons containing nitrogen or sulfur by a group contribution method
By Edwards, D.R. / Prausnitz, J.M. University of California, Berkeley, California
Ind Eng Chem Fundam, Vol. 20, p. 280-283, 1981

1081 93 Article, Properties

Evaluation and selection of coals for metallurgical coke
By Davis, R.F. Salem Corporation, Pittsburgh, Pennsylvania
Min Eng (New-York), Vol. 33, No. 4, p. 407-409, 1981

1081 94 Article, Properties

Experience with the microanalytical determination of elements in coal
By Van-der-Laarse, J.D. / Laedrach, W.
Mikrochim Acta, Vol. 1, No. 3-4, p. 309-316, 1981

1081 95 Article, Properties

Effect of air oxidation on the pore structure of coals and cokes or chars obtained from oxidized coals
By Oda, H. / Takeuchi, M. / Yokokawa, C. Kansai University, Osaka, Japan
Fuel, Vol. 60, No. 5, p. 390-396, 1981

1081 96 Article, Properties

Raman studies of coals
By Zerda, T.W. / John, A. / Chmura, K. University of Silesia, Sosnowiec, Poland
Fuel, Vol. 60, No. 5, p. 375-8, 1981

1081 97 Article, Properties

Selective quenchofluorometric detection of fluoranthenic polycyclic aromatic hydrocarbons in high performance liquid chromatography
By Konash, P.L. / Wise, S.A. / May, W.E. Center for Analytical Chemistry, National Bureau of Standards, Washington, District-of-Columbia
J Liq Chromatogr, Vol. 4, No.8, p. 1339-1349, 1981

1081 98 Article, Properties

Sulfide crystals in coal
By Hsieh, K.C. / Wert, C.A. University of Illinois, Urbana, Illinois
Mater Sci Eng, Vol. 50, No. 1, p. 117-125, 1981

1081 99 Article, Properties, Environment

Trace elemental analysis of bituminous coals using the Heidelberg proton microprobe
By Chen, J.R. / Kneis, H. / Martin, B. / Nobiling, R. / Traxel, K. / Chao, E.C. / Minkin, J.A.
Nucl Instrum Methods, Vol. 181, No. 1-3, p. 151-157, June 1980

1081 100 Article, Properties

Comparative studies in the ozonolysis of lignin and coal
By Sweeney, M. University of the West-Indies, Trinidad
Thermochim Acta, Vol. 48, No. 3, p. 263-275, 1981

1081 102 Article, Properties

Properties of CSF, a fast inorganic scintillator in energy and time spectroscopy
By Moszynski, M. / Gresset, C. / Vacher, J. / Odru, R.
Nucl Instrum Methods, Vol. 179, No. 2, p. 271-276, 1981

1081 103 Article, Properties, Liquefaction, Beneficiation

X ray absorption spectroscopic investigation of trace vanadium sites in coal
By Maylotte, D.H. / Wong, J. / Peters, R.L. / Lytle, F.W. / Greegor, R.B. General Electric Company, Schenectady, New-York
Science (Washington), Vol. 214, No. 4520, p. 554-556, 1981

1081 104 Article, Properties, Liquefaction

Matrix isolation Fourier transform infrared spectrometric detection in the open tubular column gas chromatography of polycyclic aromatic hydrocarbons
By Hembree, D.M. / Garrison, A.A. / Crocombe, R.A. / Yokley, R.A. / Wehry, E.L. / Mamantov, G. University of Tennessee, Knoxville, Tennessee
Anal Chem, Vol. 53, No. 12, p. 1783-1788, 1981

1081 105 Article, Properties

Mercury porosimetry and its application to the analysis of coal pore structure
By Spitzer, Z.
Powder Technol, Vol. 29, No. 1, p. 177-186, 1981

1081 106 Article, Properties

Modifying ability of QI free coal tar pitch to develop optical anistropy in co carbonizations
By Mochida, I. / Korai, Y. / Fujitsu, H. / Takeshita, K. / Mukai, K. / Migitaka, W. / Suetsugu, Y. Kyushu University, Fukuoka, Japan
Fuel, Vol. 60, No. 5, p. 405-412, 1981

1081 107 Article, Properties

Moessbauer study of decomposition of pyrite in hydrogen
By Montano, P.A. / Vaishnava, P.P. / King, J.A. / Eisentrout, E.N. West-Virginia University, Morgantown, West-Virginia
Fuel, Vol. 60, No. 8, p. 712-716, 1981

1081 108 Article, Properties

Nuclear magnetic proton relaxation studies of oxidized coals
By Yokono, T. / Miyazawa, K. / Sanada, Y. / Marsh, H. University of Newcastle-upon-Tyne, Newcastle-upon-Tyne, United-Kingdom
Fuel, Vol. 60, No. 7, p. 598-602, 1981

1081 109 Article, Properties

Virial coefficients in determination of molecular weights on solutions of coal derivatives
By Hombach, H.P. Oak-Ridge National Laboratory, Oak-Ridge, Tennessee
Fuel, Vol. 60, No. 8, p. 663-666, 1981

1081 110 Article, Properties

Wettability of coal estimated from the contact angle
By Murata, T. Coal Mining Research Center, Tokyo, Japan
Fuel, Vol. 60, No. 8, p. 744-746, 1981

1081 111 Article, Properties

Cross polarization magic angle spinning 13//C NMR spectra of coals of varying rank
By Miknis, F.P. / Sullivan, M. / Bartuska, V.J. / Macie, L. / Gary, E. Laramie Energy Technology Center, Laramie,

Wyoming
Org Geochem, Vol. 3, No. 1-2, p. 19-28, 1981

1081 112 Article, Properties

Active carbons from coals
By Wilson, J. National Coal Board, Cheltenham, Gloucestershire, United-Kingdom
Fuel, Vol. 60, No. 9, p. 823-31, 1981

1081 113 Article, Properties, Liquefaction

Association dissociation problems in characterizing asphaltenes in coal liquids
By Ruberto, R.G. / Cronauer, D.C. / Galya, L.G. Gulf Science and Technology Company, Pittsburgh, Pennsylvania
Fuel Process Technol, Vol. 5, No. 1-2, p. 103-118, 1981

1081 114 Patent, Properties, Beneficiation

Formation of caking coals
By Liotta, R.
Assignee: Exxon Research and Engineering Company, March 1981, 7p., 208/8 LE, C10G 1/00, Patent: United-States, 4 259 167, Appl. 69 059, March 1981
Report No.: p. 4 259 167

1081 115 Patent, Properties

Coal suspension in organic liquids
By Sawyer, E.W.
Assignee: International Telephone and Telegraph Corporation, Feb. 1981, 8p., 44/51, C10L 1/32, Patent: United-States, 4 251 230, Oct. 1978, Appl. 955 065, Feb. 1981
Report No.: p. 4 251 230

1081 116 Article, Properties

Influence of water on the tendency of heat treated brown coals to undergo oxidation
By Neshin, Y.I. / Sukhov, V.A. / Lukovnikov, A.F.
Solid Fuel Chem, Vol. 15, No. 3, p. 44-46, 1981

1081 117 Article, Properties, Combustion

Significance of the rate of heating for the processes involved in the decomposition, softening, and caking of coals
By Kosolapov, V.I.
Solid Fuel Chem, Vol. 15, No. 3, p. 30-35, 1981

1081 118 Article, Properties, Combustion

The molecular structure of the water soluble products of the oxidation of humic coal
By Gartsman, B.B. / Rumyntseva, Z.A. / Buryakova, E.P.
Solid Fuel Chem, Vol. 15, No. 3, p. 26-29, 1981

1081 119 Article, Properties

Formation of thin mesophase layers at the interface between filler and binder in prebaked anodes. Effect of mixing on mesophase
By Auguie, D. / Oberlin, M. / Oberlin, A. / Hyvernat, P.
Carbon, Vol. 19, No. 4, p. 277-284, 1981

1081 120 Article, Properties, Combustion

The possibilities of the DTA method for evaluating the technological properties of Donbass coals on small samples
By Armarekii, E.G. / Lapin, A.A.
Solid Fuel Chem, Vol. 15, No. 3, p. 114-118, 1981

1081 121 Article, Properties

Interaction of gaseous reagents with coal in a glow discharge
By Egorova, O.I. / Kolobova, E.A. / Krukovskii, V.K. / Lebedev, V.V.
Solid Fuel Chem, Vol. 15, No. 3, p. 52-54, 1981

1081 122 Article, Properties

Factors determining the properties of coal moldings from weakly caking hard coals
By Ol'fert, A.I. / Taits, E.M. / Semenov, B.M.
Solid Fuel Chem, Vol. 15, No. 3, p. 47-51, 1981

1081 123 Article, Properties

The IR spectroscopy of coals. Method of obtaining spectra in the region of hydroxyl absorption
By Likhtenshtein, V.I. / Popov, V.K. / Rus'yanova, N.D.
Solid Fuel Chem, Vol. 15, No. 3, p. 64-68, 1981

1081 124 Article, Properties

The monitoring of ash content by the neutron gamma radiation spectrometry method
By Pak, Y.N. / Starchik, L.P.
Solid Fuel Chem, Vol. 15, No. 3, p. 119-121, 1981

1081 125 Article, Properties

Chemical transformations of the organic matter of humites in lithogenesis and hypergenesis (using vitrinites as an example)
By Kukharenko, T.A.
Solid Fuel Chem, Vol. 15, No. 1, p. 106-111, 1981

1081 126 Article, Properties

The question of increasing the strength of porous carbonaceous materials
By Khonyak, V.P. / Mazina, O.I. / Rakovskii, V.E.
Solid Fuel Chem, Vol. 15, No. 2, p. 117-122, 1981

1081 127 Article, Properties

The wetting of anthracites by hard coal pitch
By Posyl'nyi, V.Y. / Kurakov, Y.I.
Solid Fuel Chem, Vol. 15, No. 2, p. 88-91, 1981

1081 128 Article, Properties

The change in the elastic properties of semicoke coke across a cross section of the layer in a continuous coking chamber
By Parfenyuk, A.S. / Zykov, D.D. / Karpov, V.S. / Zborshchik, M.P. / Gavrish, N.N. / Girina, L.V.
Solid Fuel Chem, Vol. 15, No. 2, p. 83-87, 1981

1081 129 Article, Properties

The rheological properties of coals in the plastic state
By Kopeliovich, L.V. / Gryaznov, N.S.
Solid Fuel Chem, Vol. 15, No. 2, p. 27-32, 1981

1081 130 Article, Properties

The strength characteristics of coke fillers of carbonaceous materials
By Ostrovskii, V.S. / Roshchina, A.A. / Sinel'nikov, L.Z.
Solid Fuel Chem, Vol. 15, No. 2, p. 108-111, 1981

1081 131 Article, Properties, Gasification, Liquefaction

Evaluation of the suitability of coals for the production of synthetic fuel
By Eremin, I.V. / Zharova, M.N. / Skripchenko, G.B.
Solid Fuel Chem, Vol. 15, No. 1, p. 76-80, 1981

1081 132 Article, Properties, Gasification, Liquefaction

Structure and intermolecular interactions in coals and their influence on treatment processes
By Rus'yanova, N.D. / Popov, V.K.
Solid Fuel Chem, Vol. 15, No. 1, p. 81-86, 1981

1081 133 Article, Properties

Production of coal graphite materials on the basis of a modified pitch binder
By Antonov, A.N. / Fedoseev, S.D. / Vorob'eva, N.F. / Komarova, T.V. / Kortunova, G.B.
Solid Fuel Chem, Vol. 15, No. 1, p. 148-151, 1981

1081 134 Article, Properties

Morphology of the water soluble organomineral compounds of brown coal
By Beulina, N.Y. / Kamneva, A.I.
Solid Fuel Chem, Vol. 15, No. 2, p. 43-45, 1981

1081 135 Article, Properties

Mechanism of the structural rearrangements in the preventive treatment of anthracites of different genetic types
By Artemov, A.V. / Glukhodedov, V.N.
Solid Fuel Chem, Vol. 15, No. 2, p. 23-26, 1981

1081 136 Article, Properties

Size exclusion chromatography of organically bound metals and coal derived materials with inductively coupled plasma atomic emission spectrometric detection
By Hausler, D.W. / Taylor, L.T. Virginia Polytechnic Institute and State University, Blacksburg, Virginia
Anal Chem, Vol. 53, No. 8, p. 1227-1231, July 1981

1081 137 Article, Properties

Solid and gaseous fuels
By Schultz, H. / Wells, A.W. / Bergstresser, T.W. Pittsburgh Energy Technology Center, Pittsburgh, Pennsylvania
Anal Chem, Vol. 53, No. 5, p. 233-241, April 1981

1081 138 Article, Properties

The interconnection of the plastic viscous properties and the petrographic features of Kuznetsk coals in charges
By Stankevich, A.S. / Zolotukhin, Y.A. / Fomanina, T.M.
Solid Fuel Chem, Vol. 15, No. 4, p. 8-13, 1981

1081 139 Article, Properties

Features of the molecular structures of coals of different genetic types in relation to degree of reduction
By Artemov, A.V. / Stepovoi, G.I.
Solid Fuel Chem, Vol. 15, No. 4, p. 14-19, 1981

1081 140 Article, Properties

A new method for quantitative X ray analysis of multi phase mixtures
By Woelfel, R.E. STOE Application Laboratory, Hilpertstrasse, Germany
J Appl Crystallogr, Vol. 14, No. 5, p. 291-296, 1981

1081 141 Article, Properties

Application of Moessbauer spectroscopy to coal characterization and utilization
By Montano, P.A. West-Virginia University, Morgantown, West-Virginia
Adv Chem Ser., Vol. 194, p. 135-175, 1981

1081 142 Article, Properties

Electron momentum distribution and charge transfer study of FeAl, CoAl, and NiAl
By Manninen, S. / Sharma, B.K. / Paakkari, T. / Rundqvist, S. / Richardson, M.W. University of Helsinki, Helsinki, Finland
Phys Status Solidi B, Vol. 107, No. 2, p. 749-755, 1981

1081 143 Article, Properties

Chromatographic fingerprinting of coal extracts
By Alexander, G. / Hazai, I. Hungarian Academy of Sciences, Budapest, Hungary
J Chromatogr, Vol. 217, p. 19-38, 1981

1081 144 Article, Properties

High performance liquid chromatographic column switching techniques for rapid hydrocarbon group type separations
By Alfredson, T.W. Varian Associates, Walnut-Creek, California
J Chromatogr, Vol. 218, p. 715-728, 1981

1081 145 Article, Properties

In flight plasma reduction of domestic chromite
By Moore, J.J. / Reid, K.J. / Tylko, J.K. University of Minnesota, Minneapolis, Minnesota
J Met, Vol. 33, No. 8, p. 43-49, 1981

1081 146 Article, Properties

Influence of the degree of metamorphism and reduction of the anthracites of the Donbas on the properties of the products of their thermal treatment
By Eremin, I.V. / Ivanov, V.P. / Maloletnev, A.S. / Danilova, R.A.
Solid Fuel Chem, Vol. 15, No. 2, p. 19-22, 1981

1081 147 Article, Properties

Influence of anisotropy on the distribution of the reflectances of the vitrinite in polished briquettes
By Dobronravov, V.F.
Solid Fuel Chem, Vol. 15, No. 4, p. 20-24, 1981

1081 148 Article, Properties

Influence of some structural features of a coal on its tendency to undergo reduction
By Grigor'eva, E.A. / Bakirova, E.V. / Lesnikova, E.B. / Larina, N.K. / Zharova, M.N. / Dzhalyabova, L.V.
Solid Fuel Chem, Vol. 15, No. 4, p. 25-29, 1981

1081 149 Article, Properties

A comparative study of the products of the oxidation of solid combustible minerals of different natures
By Veski, R.E. / Bondar, E.V.
Solid Fuel Chem, Vol. 15, No. 4, p. 39-45, 1981

1081 150 Article, Properties

The theory of the caking of carbon compositions and coal charges
By Syskov, K.I. / Lapina, N.A. / Gromova, O.B. / Petrov, N.V.
Solid Fuel Chem, Vol. 15, No. 4, p. 46-52, 1981

1081 151 Article, Properties

Experience of the use of the method of powder thermomechanics for investigating coals
By Nechaeva, O.V. / Prokop'eva, T.L. / Rus'yanova, N.D. / Glyanchenko, V.D.
Solid Fuel Chem, Vol. 15, No. 4, p. 129-135, 1981

1081 152 Article, Properties

The role of liquid crystals in the formation of graphitizable carbons (cokes)
By Atkinson, C.J. / Lander, J.R. / Marsh, H. University of Newcastle-upon-Tyne, Newcastle-upon-Tyne, United-Kingdom
Br Polym J, Vol. 13, No. 1, p. 1-4, 1981

1081 153 Article, Properties, Combustion

Thermophysical properties of Pittsburgh seam coal
By Tye, R.P. / Desjarlais, A.O. / Singer, J.M. Dynatech R/D Company, Cambridge, Massachusetts
United-States Bureau of Mines, Pittsburgh, Pennsylvania, 1981

1081 154 Article, Properties

Reduction of hematite pellets with carbonized coal in a static bed
By Wright, J.K. / Bowling, K.M. / Morrison, A.L.
Trans Iron Steel Inst, Vol. 21, No. 3, p. 149-155, 1981

1081 155 Article, Properties

O Alkylation chemistry of coal and its implications for the chemical and physical structure of coal
By Liotta, R. / Rose, K. / Hippo, E. Exxon Research and Engineering Company, Linden, New-Jersey
J Org Chem, Vol. 46, No. 2, p. 277-283, 1981

1081 157 Article, Properties

Quantitative investigations of pyrite and coal
By Williamson, D.L. / Guettinger, T.W. / Dickerhoof, D.W. Colorado School of Mines, Golden, Colorado
Adv Chem Ser, Vol. 194, p. 177-208, 1981

1081 158 Article, Properties

Qualitative and quantitative analysis of iron bearing minerals in fossil fuels and petroleum source rock by iron 57 Moessbäuer spectroscopy
By Karl, R.E. / Zuckerman, J.J. University of Oklahoma, Norman, Oklahoma
Adv Chem Ser, Vol. 194, p. 221-245, 1981

1081 159 Article, Properties

Reversed phase HPLC retention behavior of coal related nitrogen heterocyclic compounds
By Schronk, L.R. / Grisby, R.D. / Hanks, A.R. Cities Service Technology Center, Tulsa, Oklahoma
J Chromatogr Sci, Vol. 19, No. 10, p. 490-495, 1981

1081 160 Article, Properties

Recent advances in hydrometallurgy
By Habashi, F. Laval University, Quebec-City, Quebec
Dev Miner Process, Vol. 2, p. 902-935, 1981

1081 161 Article, Properties

Solubilities of Taiheiyo (Japan) coal in a series of alcohols
By Mondragon, F. / Makabe, M. / Itoh, H. / Ouchi, K. Hokkaido University, Sapporo, Japan
Fuel, Vol. 60, No. 10, p. 996-997, 1981

1081 162 Article, Properties

Stability of bitumens produced by thermal processes
By Giavarini, C. University of Rome, Rome, Italy
Fuel, Vol. 60, No. 5, p. 401-404, May 1981

1081 163 Article, Properties, Gasification

Structure of coals and their conversion to gaseous fuels
By Walker, P.L. Pennsylvania State University, University-Park, Pennsylvania
Fuel, Vol. 60, No. 9, p. 801-802, 1981

1081 164 Article, Properties

Temperature dependence of hydrogen 1 NMR absorption in coal and pitch
By Miyazawa, K. / Yokono, T. / Chiba, T. / Sanada, Y. / Yamada, E. / Shimokawa, S. Hokkaido University, Sapporo, Japan
Adv Chem Ser, Vol. 192, p.59-74, 1981

1081 165 Article, Properties

The nature and possible significance of particulate structure in alkali treated brown coal
By Camier, R.J. / Siemon, S.R. / Battaerd, A.J. / Stanmore, B.R. University of Melbourne, Victoria, Australia
Adv Chem Ser, Vol. 192, p. 311-320, 1981

1081 166 Article, Properties

The ultrafine structure of coal determined by electron microscopy
By Harris, L.A. / Yust, C.S. Oak-Ridge National Laboratory, Oak-Ridge, Tennessee
Adv Chem Serv, vol. 192, p. 321-336, 1981

1081 167 Article, Properties

Moessbauer effect study of Victorian brown coal
By Cashion, J.D. / Maguire, B. / Kiss, L.T. Monash University, Clayton, Australia
Adv Chem Ser, Vol 194, p. 209-219, 1981

1081 168 Article, Properties

Internal friction in coal
By Wert, C.A. / Weller, M.
J Phys Colloq, No. (C5-PT.1), p. 581-585, 1981

1081 169 Article, Properties, Geology

Physical and chemical structure of coals: Sorption studies
By Fuller, E.L. Oak-Ridge National Laboratory, Oak-Ridge, Tennessee
Adv Chem Ser, Vol 192, p. 293-309, 1981

1081 170 Article, Properties

Relation between coal structure and thermal decomposition products
By Solomon, P.R. United Technologies Research Center, East-Hartford, Connecticut
Adv Chem Ser, Vol. 192, p. 95-122, 1981

1081 171 Article, Properties

Structural characterization of coal: Lignin like polymers in coals
By Hayatsu, R. / Winans, R.E. / McBeth, R.L. / Scott, R.G. / Moore, L.P. / Studier, M.H. Argonne National Laboratory, Argonne, Illinois
Adv Chem Ser, Vol. 192, p. 133-149, 1981

1081 173 Article, Properties

Investigations on additives to concrete for the prevention of alkali aggregate reaction
By Kordina, K. / Schwick, W.
Betonwerk Fertigteil-Tech, Vol. 47, No. 6, p. 328-3331, 1981

1081 174 Report, Properties, Liquefaction

Application of selected chemical reactions to the organic chemistry of coal - thesis
By Metzler, R.M. Iowa State University, Ames, Iowa
NTIS, United-States Department of Energy, 78p., Feb. 1981
Report No.: IS-T-948

1081 175 Article, Properties

Investigation and analysis of the forms and energies of the binding of moisture with coal
By Matsyna, V.D. / Filippox, V.A. / Kolyuzhnaya, N.A.
Solid Fuel Chem, Vol. 15, No. 5, p. 1-7, 1981

1081 176 Article, Properties

Improvement in the adsorption properties of semicoke from the power cum technological processing of Kansk achinsk brown coal
By Koz'min, G.V. / Mozhaeva, V.I. / Kim, S.T. / Kalyuzhnyi, V.V. / Nikolaeva, V.A.
Solid Fuel Chem, Vol. 15, No. 5, p. 86-88, 1981

1081 177 Article, Properties

Influence of the magnitude of the surface of leaning additives on the caking of coals
By Tamplon, V.V. / Stankevich, A.S.
Solid Fuel Chem, Vol. 15, No. 5, p. 100-103, 1981

1081 178 Article, Properties

Influence of the final temperature of the pyrolysis of coal on the reactivity and nature of the interaction of the coke residues with oxygen
By Rod'kin, S.P. / Zorin, A.T.
Solid Fuel Chem, Vol. 15, No.. 6, p. 74-77, 1981

1081 179 Article, Properties

Small angle x ray investigation of the porosity in coals
By Kalliat, M. / Kwak, C.Y. / Schmidt, P.W. University of Missouri-Columbia, Columbia, Missouri
ACS Symp Ser, Vol. 169, New Approaches in Coal Chem., p. 3-22, 1981

1081 180 Article, Properties

Carbon 13 CP/MAS study of coal macerals of varying rank
By Pugmire, R.J. / Zilm, K.W. / Grant, D.M. / Larter, S.R. / Allen, J. / Senftle, J.T. / Davis, A. / Spackman, W.
University of Utah, Salt-Lake-City, Utah
ACS Symp Ser, Vol. 169, New Approaches in Coal Chem., p. 23-42, 1981

1081 181 Article, Properties

Cross linked structures in coals: models and preliminary experimental data
By Lucht, L.M. / Peppas, N.A. Purdue University, West-Lafayette, Indiana
ACS Symp Ser, Vol. 169, New Approaches in Coal Chem., p. 43-59, 1981

1081 182 Article, Properties

Coal structure and thermal decomposition
By Solomon, P.R. Advanced Fuel Research Inc., East-Hartford, Connecticut
ACS Symp Ser, Vol. 169, New Approaches in Coal Chem., p. 61-71, 1981

1081 183 Article, Properties

A study of coal oxidation by charged particle activation analysis
By Schlyer, D.J. / Wolf, A.P. Brookhaven National Laboratory, Upton, New-York
ACS Symp Ser, Vol. 169, New Approaches in Coal Chem., p. 87-94, 1981

1081 184 Article, Properties, Liquefaction

Characterization of coal derived materials by matrix isolation spectroscopy
By Wehry, E.L. / Mamantov, G. University of Tennessee, Knoxville, Tennessee
ACS Symp Ser, Vol. 169, New Approaches in Coal Chem., p. 251-265, 1981

1081 185 Article, Properties

A new method for analysis of pyrite in coal and lignite
By Hyman, M. / Rowe, M.W. Texas A&M University, College-Station, Texas
ACS Symp Ser, Vol. 169, New Approaches in Coal Chem., p. 389-400, 1981

1081 186 Article, Properties

A study of the kinetics of the low temperature oxidation of Donbass coals tending and not tending to undergo spontaneous combustion
By Saranchuk, V.I. / Galushko, L.Y. / Pashchenko, L.V. / Pototskaya, L.L.
Solid Fuel Chem, Vol. 15, No. 6, p.1-6, 1981

1081 187 Article, Properties

An investigation of the chemical composition of the resin fraction of brown coal wax
By Zubko, S.V. / Zhukov, V.K. / Yurkevich, E.A.
Solid Fuel Chem, Vol. 15, No. 6, p. 54-57, 1981

1081 188 Article, Properties

An investigation of the properties of coal alkali reagents from a number of coals
By Umarov, T.Z. / Pobedonostseva, O.I. / Pobedonostseva, N.I. / Zabramnyi, D.T.
Solid Fuel Chem, Vol. 15, No. 6, p. 58-62, 1981

1081 189 Article, Properties

Adsorption of organic substances by coals from the gas phase under dynamic conditions
By Zubkova, Y.N. / Butygin, A.V.
Solid Fuel Chem, Vol. 15, No. 5, p. 112-114, 1981

1081 190 Conference proceedings, Properties, Geology

C 13 NMR on solid samples and its application to coal science
By Maciel, G.E. / Sullivan, M.J. / Szeverenyi, N.M. / Miknis, F.P. Colorado State University, Fort-Collins, Colorado
AIP Conf Proc, Vol. 70, p. 66-81, 1981

1081 191 Article, Properties

Determination of the optical anisotropy of vitrinites from briquettes with polished surfaces
By Dobronravov, V.F.
Solid Fuel Chem, Vol. 15, No. 5, p. 8-10, 1981

1081 192 Article, Properties

Gel permeation chromatography of coal extracts
By Nosyrev, I.E. / Kuzaev, A.I. / Kochkanyan, R.O. / Baranov, S.N.
Solid Fuel Chem, Vol. 15, No. 5, p. 61-66, 1981

1081 193 Patent, Properties

Method for producing coke
By Liotta, R. Exxon Research and Engineering Company, Florham-Park, New-Jersey
Assignee: Exxon Research & Engineering Co., Nov. 1981, 10p., 208/8 LE, C10G/100, Patent: United-States, 4 300 994, June 1980, Appl. 164 170, Nov. 1981
Report No.: p. 4 300 994

1081 194 Article, Properties

Petrography: the science of coal marketing
By Nickeson, F.H.
Coal Min Process, Vol. 18, No. 2, p. 60-64, Feb. 1981

1081 195 Article, Properties

Pyrolysis gas chromatography mass spectrometry of tricyclic hydroaromatic compounds from coal hydrogenates
By Braekman-Danheux, C. Universite Libre de Bruxelles, Brussels, Belgium
J Anal Appl Pyrolysis, Vol. 3, No. 2, p. 173-177, 1981

1081 196 Article, Properties

Rheological and pumping characteristics of ethacoal
By Davis, P.K. / Muchmore, C.B. / Missavage, R.J. / Coleman, G.N. Southern Illinois University, Carbondale, Illinois
J Pipelines, Vol. 1, No. 2, p. 139-144, Aug. 1981

1081 197 Article, Properties

Removal of organic sulfur by low temperature carbonization of Illinois coals
By Kruse, C.W. / Shimp, N.F. Illinois State Geological Survey, Champaign, Illinois
Coal Process Technol, Vol. 7, p. 124-134, 1981

1081 198 Article, Properties

Recent advances in microcomputer controlled themogravimetry of coal and coal products
By Earnest, C.M. / Fyans, R.L. Perkin-Elmer Corporation, Norwalk, Connecticut
Perkin-Elmer Therm Anal Appl Study, Vol. 32, 8p., 1981

1081 199 Article, Properties

Spectral fluorometric analysis of extracts. A new method for the determination of the degree of maturity of organic matter in sedimentary rocks
By Hagemann, H. / Hollerbach, A. Rheinisch-Westfalische Technische, Aachen, Germany
Bull Cent Rech Explor-Prod Elf Aquitaine, Vol. 5, No. 2, p. 635-650, 1981

1081 201 Article, Properties

Experimental results of soft x ray emission spectra from iron aluminium (FeAl) cobalt aluminium (CoAl) and nickel aluminium (NiAl)
By Goldstein, H.E. / Pfliegl, R. / Kirchmayr, H. Technical University of Vienna, Vienna, Austria
Inn-Shell X-ray Phys at Solids, Proc Int Conf X-ray Processes Inn-Shell Ioniz, p. 635-639, 1980

1081 202 Article, Properties

Interactive software for automated particulate analysis
By Fritz, G.S. / McCarthy, J.J. / Lee, R.J. Tracor Northern, Inc., Middleton, Wisconsin
Microbeam Anal, Vol. 16, p. 57-60, 1981

1081 203 Article, Properties

Organic oxygen and sulfur analysis of various coal macerals
By Friel, J.J. / Mitchell, G.D. Bethlehem Steel Corporation, Bethlehem, Pennsylvania
Microbeam Anal, Vol. 16, p. 148-150, 1981

1081 204 Report, Properties

Modeling of gas sorption kinetics in coal
By Irwin, T.B. / Grosset, A.M. / Sood, J.S. Massachusetts Institute of Technology, Cambridge, Massachusetts
Oak-Ridge National Laboratory, 65p., 1981
Report No.: ORNL/MIT-305

1081 205 Article, Properties

The use of the method of rational planning of experimental work in the oxidation of the brown coal of the Maikuben Deposit
By Moldybaev, A.B. / Krichevskii, L.A.
Solid Fuel Chem, Vol. 15, No. 6, p. 16-18, 1981

1081 206 Article, Properties

The possibility of applying the method of multiple attenuated total internal reflection to investigation adsorption on coal
By Bubnovskaya, L.M. / Popov, V.K.
Solid Fuel Chem, Vol. 15, No. 6, p. 28-30, 1981

1081 207 Article, Properties

The individual composition of the high molecular weight fraction of water soluble polycarboxylic acids obtained in the oxidation of humic coals
By Gartsman, B.B. / Rumyantseva, Z.A. / Grishin, N.N.
Solid Fuel Chem, Vol. 15, No. 6, p. 31-35, 1981

1081 208 Article, Properties

The heats of sorption of methane by coals at pressures of up to 8.0 MPa
By Ettinger, I.L. / Shul'man, N.V. / Kovaleva, I.B. / Radchenko, S.A. / Gershanik, A.P.
Solid Fuel Chem, Vol. 15, No. 5, p. 108-111, 1981

1081 209 Article, Properties

Technological limitations in the isolation of individual components of hard coal tar by fractional distillation
By Belousova, O.A. / Lekhova, G.B. / Kharlampovich, G.D.
Solid Fuel Chem, Vol. 15, No. 5, p. 104-107, 1981

1081 210 Article, Properties

The use of diffuse reflection spectroscopy for obtaining the electronic spectra of coals
By Popov, V.K. / Zhdanov, V.S. / Rus'yanova, N.D.
Solid Fuel Chem, Vol. 15, No. 5, p. 11-16, 1981

1081 211 Article, Properties

Technique and economy for the use of lignite in cement rotary kilns

Ciments, Betons, Platres, Chaux, Vol. 732, p. 271-276, 1981

1081 212 Conference proceedings, Properties

Understanding coal using thermal decomposition and Fourier Transform infrared spectroscopy
By Solomon, P.R. / Hamblen, D.G. Advanced Fuel Research Inc., East-Hartford, Connecticut
AIP Conf Proc, Vol. 70, No. (Chem Phys Coal Util-1980), p. 121-140, 1981

1081 213 Conference proceedings, Properties

Electrical properties of coal at microwave frequencies for monitoring
By Balanis, C.A. West-Virginia University, Morgantown, West-Virginia
AIP Conf Proc, Vol. 70, No. (Chem Phys Coal Util-1980), p. 175-197, 1981

1081 214 Conference proceedings, Properties

Moessbauer spectroscopy for pyrite analysis in coal
By Levinson, L.M. General Electric Company, Schenectady, New-York
AIP Conf Proc, Vol. 70, No. (Chem Phys Coal Util-1980), p. 209-234, 1981

1081 215 Conference proceedings, Properties

Heat capacity and NMR studies of water in coal pores
By Mraw, S.C. / Silbernagel, B.G. Exxon Research and Engineering Company, Linden, New-Jersey
AIP Conf Proc, Vol. 70, No. (Chem Phys Coal Util-1980), p. 332-343, 1981

1081 216 Article, Properties

Viscosity of coal charges in the plastic state
By Barskii, V.D. / Mochalova, R.V. / Gryaznov, N.S. / Ol'shanetskii, L.G.
Solid Fuel Chem, Vol. 15, No. 5, p. 94-99, 1981

1081 217 Conference proceedings, Properties, Geology

Morphological analysis of selected coal macerals
By Beddow, J.K. / Vetter, A.F. / Hanson, E. University of Iowa, Iowa-City, Iowa
Proc of the 64th CIC Coal Symp, Halifax, Nova-Scotia, May 31-June 3, 1981, Vol. 1, p. 87-90,, 1981

1081 218 Conference proceedings, Properties

Coal analyzer
By Jarmell, S. / Eickenberg, E. / Byrnes, P. Fisher Scientific, Pittsburgh, Pennsylvania
Proc of the 64th CIC Coal Symp, Halifax, Nova-Scotia, May 31-June 3, 1981, Vol. 1, p. 99-104,, 1981

1081 219 Conference proceedings, Properties

On evidence for a systematic molecular chemistry of coal
By Berkowitz, N. University of Alberta, Edmonton, Alberta
Proc of the 64th CIC Coal Symp, Halifax, Nova-Scotia, May 31-June 3, 1981, Vol. 1, p. 105-110,, 1981

1081 221 Conference proceedings, Properties

The characterization of oxidized coal - a review
By Andersen, N.E. / Hamza, H.A. CANMET, Edmonton, Alberta
Proc of the 64th CIC Coal Symp, Halifax, Nova-Scotia, May 31-June 3, 1981, Vol. 1, p. 117-124,, 1981

1081 222 Conference proceedings, Properties

Adsorption - a tool for characterizing coal oxidation
By Al-Taweel, A.M. / Farag, H.A. / Kwak, J. / Hamza, H.A. / Falk, M. Technical University of Nova-Scotia, Halifax, Nova-Scotia
Proc of the 64th CIC Coal Symp, Halifax, Nova-Scotia, May 31-June 3, 1981, Vol. 1, p. 125-130,, 1981

1081 223 Conference proceedings, Properties

Determination of surface and bulk oxidation of coals by Fourier Transform Infrared Spectroscopy using a photoacousitc detector
By Donini, J.C. / LaCour, S.A. / Lynch, B.M. / Simon, A. St. Francis Xavier University, Antigonish, Nova-Scotia
Proc of the 64th CIC Coal Symp, Halifax, Nova-Scotia, May 31-June 3, 1981, Vol. 1, p. 132-134,, 1981

1081 224 Patent, Properties

Coke production process
By Schaefer, H. / Sharpe, D.E.
Assignee: H. Schafer and D. E. Sharpe, Jan. 1981, 3p., C10B 57/08, Patent: United-Kingdom, 2 050 412 A, May 1979, Appl. 7917614, Jan. 1981
Report No.: p. 2 050 412

1081 225 Patent, Properties

Synthetic firelog incorporating binder made from liquid combustible by product
By Tanner, D.J. Burnco Combustible Products Ltd., Canada
Assignee: Burnco Combustible Products Ltd., Dec. 1981, 60p., C10L 5/36, Patent: Canada, 1 113 246, March 1979, Appl. 322 781, Dec. 1981
Report No.: p. 1 113 246

1081 226 Article, Properties

Catalytic coal conversion support - use of laser flash pyrolysis for structural analysis - October 1 December 31, 1980
By Rofer-DePoorter, C.K. / Verzino, W.J. / Hermes, R.E. / Vanderborgh, N.E.
Los-Alamos National Laboratory, Los-Alamos, New-Mexico, Oct. 1981
Report No.: LA-9033-PR

1081 227 Report, Properties, Environment

A coal and ash blend analysis of a bituminous and a subbituminous coal - thesis
By Bruns, J.M. Iowa State University, Ames, Iowa
United-States Department of Energy, 236p., 1981
Report No.: DOE/TIC/11440

1081 228 Conference proceedings, Properties

The evaluation of Alberta coals for thermal and conversion purposes
By Fryer, J.F. Fryer Consultants, Edmonton, Alberta
Proc of the 64th CIC Coal Symp, Halifax, Nova-Scotia, May 31-June 3, 1981, Vol. 2, p. 530-536, 1981

1081 229 Conference proceedings, Properties

The optical anisotropy of coke in relation to metallurgical coke making
By Patrick, J.W. / Reynolds, M.J. / Shaw, F.H. British Carbonization Research Association, Chesterfield, Derbyshire, United-Kingdom
Proc of the 64th CIC Coal Symp, Halifax, Nova-Scotia, May 31-June 3, 1981, Vol. 2, p. 550-559, 1981

1081 230 Conference proceedings, Properties

An interpretation of the breakage behaviour of metallurgical coke
By Horton, A.E. / Peirce, T.J. National Coal Board, Cheltenham, Gloucestershire, United-Kingdom
Proc of the 64th CIC Coal Symp, Halifax, Nova-Scotia, May 31-June 3, 1981, Vol. 2, p. 568-576, 1981

1081 231 Conference proceedings, Properties

Cokemaking with Canadian coals
By Leeder, W.R. / Gransden, J.F. / Price, J.T. CANMET, Edmonton, Alberta
Proc of the 64th CIC Coal Symp, Halifax, Nova-Scotia, May 31-June 3, 1981, Vol. 2, p. 585-593, 1981

1081 232 Conference proceedings, Properties

Acid rain: a re evaluation of some issues
By Effer, W.R. Ontario Hydro, Toronto, Ontario
Proc of the 64th CIC Coal Symp, Halifax, Nova-Scotia, May 31-June 3, 1981, Vol. 2, p. 594-601, 1981

1081 233 Conference proceedings, Properties, Beneficiation

Fine coal and filter cake characterization by image analysis techniques as related to filtration and dewatering processes
By Klinzing, G.E. University of Pittsburgh, Pittsburgh, Pennsylvania
Part Tech, Symp in conjuction with PowTech 81 Exhib, Brimingham, United-Kingdom, Mar. 10-13, 1981, Publ by Inst of Chem Eng, Symp Ser No. 63, Warwickshire, United-Kingdom, p. D4/HH/1-D4/HH/19, 1981

1081 234 Report, Properties

Study on the analysis of coals in the Atlantic Region
By Arsenau, D.F. Bras D'or Institute College of Cape-Breton, Syndey, Nova-Scotia
National Research Council Canada , 50p., July 1981
Report No.: NRCC-19535

1081 235 Article, Properties

A representative Poisson's Ratio for coal
By Szabo, T.L.
Int J Rock Mech Min Sci Geomech, Vol. 18, No. 6, p. 531-533, Dec. 1981

1081 236 Article, Properties

A method of estimating ash content of coal from combined resistivity and gamma ray logs
By Kayal, J.R. / Das, L.K. Geological Survey of India, Calcutta, India
Geoexploration, Vol. 19, No. 3, p. 193-200, Dec. 1981

1081 237 Article, Properties

Anodic depolarization by coal lowers electric energy consumption during electrodeposition of metal
By Coughlin, R.W. University of Connecticut, Storrs, Connecticut
Process Fundam Consid Sel Hydrometall Syst, p. 379-383, 1981

1081 238 Article, Properties

An investigation of the hydrophilic/oleophilic nature of various coals
By Adams-Viola, M. / Botsaris, G.D. / Glazman, Y.M. Tufts University, Medford, Massachusetts
Colloids Surf, Vol. 3, No. 2, p.. 159-171, Sept. 1981

1081 239 Article, Properties

Desulfurization of iron disulfide: evaluation of alternative mechanisms
By Daugherty, D.F. Research Triangle Institute, Research-Triangle-Park, North-Carolina
Coal Processing Technology, Vol. 7, p. 108-123, 1981

1081 240 Article, Properties

Classification of organic matter by means of fluorescence: application to hydrocarbon source rocks
By Robert, P. Societe Nationale Elf-Aquitaine (Production), Boussens, France
Int J Coal Geol, Vol. 1, No. 2, p. 101-137, June 1981

1082 0 Article, Properties

Separation of coal macerals
By Dyrkacz, G.R. / Horowitz, E.P. Argonne National Laboratory, Argonne, Illinois
Fuel, Vol. 61, No. 1, p. 3-12, 1982

1082 1 Article, Properties

Structure analysis of coals by resolution enhanced solid state 13C N.M.R. spectroscopy
By Hagaman, E.W. / Woody, M.C. Oak-Ridge National Laboratory, Oak-Ridge, Tennessee
Fuel, Vol. 61, No. 1, p. 53-57, 1982

1082 2 Article, Properties

Structural study of coals by means of directly prepared potassium coal adducts
By Lazarov, L. / Stefanova, M. / Petrov, K. Bulgarian Academy of Sciences, Sofia, Bulgaria
Fuel, Vol. 61, No. 1, p. 58-62, 1982

1082 3 Article, Properties

On the correlation of the weight per cent ash of coals and their silicon content
By Hicks, D.G. / O'Reilly, J.E. / Koppenaal, D.W. University of Kentucky, Lexington, Kentucky
Fuel, Vol. 61, No. 2, p. 150-154, Feb. 1982

1082 4 Article, Properties

Influence of coagulants and flocculants on contact angles of coal surfaces
By Coca, J. / Bueno, J.L. / Sastre, H. University of Oviedo, Oviedo, Spain
Fuel, Vol. 61, No. 2, p. 166-168, Feb. 1982

1082 5 Article, Properties; Combustion

Low temperature air oxidation of caking coals. 2. Effect on swelling and softening properties
By Maloney, D.J. / Jenkins, R.G. / Walker, P.L. Pennsylvania State University, University-Park, Pennsylvania
Fuel, Vol. 61, No. 2, p. 175-181, Feb. 1982

1082 6 Article, Properties

Determination of bridgehead aromatic carbons in coal derived materials
By Mashimo, K. / Nakayama, I. / Kiya, K. / Wainai, T. Nihon University, Chiyoda-ku, Japan
Fuel, Vol. 61, No. 2, p. 193-195, Feb. 1982

1082 7 Article, Properties, Liquefaction

Mesophase formation and the degree of hydrogenation of coal
By Shibaoka, M. CSIRO, Division of Fossil Fuels, North-Ryde, Australia
Fuel, Vol. 61, No. 3, p. 303-305, 1982

1082 8 Article, Properties

Correlation of reactivity and electrical resistivity of coke
By Musto, R.L. / DuBroff, W. Inland Steel Company, Chicago, Indiana
Fuel, Vol. 61, No. 3, p. 305-306, 1982

1082 9 Article, Properties

Effect of thermal treatment on the interaction of brown coal and water: a nuclear magnetic resonance study
By Lynch, L.J. / Webster, D.S. CSIRO, Institute of Earth Resources, North-Ryde, Australia
Fuel, Vol. 61, No. 3, p. 271-275, 1982

1082 10 Article, Properties, Geology

Behaviour of huminite macerals from Victorian brown coal in tetralin in autoclaves at temperatures of 300 380 deg C
By Shibaoka, M. CSIRO, Division of Fossil Fuels, North-Ryde, Australia
Fuel, Vol. 61, No. 3, p. 265-270, 1982

1082 11 Article, Properties

A scanning electron microscope study of fractured and etched metallurgical coke surfaces
By Hays, D. / Patrick, J.W. / Walker, A. British Carbonization Research Association, Chesterfield, Derbyshire, United-Kingdom
Fuel, Vol. 61, No. 3, p. 232-236, 1982

1082 12 Article, Properties

The reductive alkylation of Illinois No. 6 coal. Factors governing the reductive alkylation reaction in ethereal solvents
By Alemany, L.B. / Stock, L.M. University of Chicago, Chicago, Illinois
Fuel, Vol. 61, No. 3, p. 250-256, 1982

1082 13 Article, Properties

Particle size and molecular weights of derivatives from coal
By Hombach, H.P. Oak-Ridge National Laboratory, Oak-Ridge, Tennessee
Fuel, Vol. 61, p. 215-220, 1982

1082 14 Article, Properties

Hydrogenolysis and hydrocracking of the carbon oxygen bond. 2. Thermal cleavage of the carbon oxygen bond in guaiacol
By Ceylan, R. / Bredenberg, J.B. Helsinki University of Technology, Helsinki, Finland
Fuel, Vol. 61, No. 4, p. 377-382, 1982

1082 15 Article, Properties

Proton dynamic polarization and proton carbon cross polarization in coal
By Wind, R.A. / Trommel, J. / Smidt, J. Delft University of Technology, Delft, Netherlands
Fuel, Vol. 61, No. 4, p. 398-400, 1982

1082 16 Article, Properties

Co carbonization of fractions of solvent refined coal with a non coking coal
By Ng, N. / Fredericks, P.M. / Bennett, M.L. BHP Central Research Laboratories, NSW, Australia
Fuel, Vol. 61, No. 4, p. 390-392, 1982

1082 17 Article, Properties

Estimation of oxygen group concentrations in coal extracts by nuclear magnetic resonance spectrometry
By Snape, C.E. / Smith, C.A. / Bartle, K.D. / Matthews, R.S. National Coal Board, Cheltenham, Gloucestershire, United-Kingdom
Anal Chem, Vol. 54, No. 1, p. 20-25, 1982

1082 18 Article, Properties

Analysis of complex samples by coupled column chromatography
By Ogan, K. / Katz, E. Perkin-Elmer Corporation, Norwalk, Connecticut
Anal Chem, Vol. 54, p. 169-173, 1982

1082 19 Article, Properties

Mass spectral characterization of nitrogen containing compounds with ammonia chemical ionization
By Buchanan, M.V. Oak-Ridge National Laboratory, Oak-Ridge, Tennessee
Anal Chem, Vol. 54, No. 3, p. 570-574, 1982

1082 20 Article, Properties

Chemical characterization of solid coals through magic angle C 13 nuclear magnetic resonance
By Havens, J.R. / Koenig, J.L. / Painter, P.C. Case Western Reserve University, Cleveland, Ohio
Fuel, Vol. 61, No. 4, p. 393-396, 1982

1082 21 Article, Properties

Trace element content of northern Ontario peat
By Glooschenko, W.A. / Capoblanco, J.A. National Water Research Institute, Burlington, Ontario
Environ Sci Technol, Vol. 16, No. 3, p. 187-188, 1982

1082 22 Article, Properties

Carbon 13 nuclear magnetic resonance characterization of coal macerals by magic angle spinning
By Maciel, G.E. / Sullivan, M.J. / Petrakis, L. / Grandy, D.W. Colorado State University, Fort-Collins, Colorado
Fuel, Vol. 61, p. 411-414, May 1982

1082 23 Article, Properties

Chemical characterization of coal. 3. Qualitative and quantitative aspects of the reductive methylation of coal
By Niemann, K. / Richter, U.
Fuel, Vol. 61, p. 423-429, May 1982

1082 24 Article, Properties

Volatility test for bituminous materials
By Romovacek, G.R. Koppers Company, Inc., Monroeville, Pennsylvania
Fuel, Vol. 61, p. 430-432, May 1982

1082 25 Article, Properties

Epr study of molecular phases in coal
By Duber, S. / Wieckowski, A.B. Institute of Molecular Physics of the Polish Academy of Sciences, Smoluchowskiego, Poland
Fuel, Vol. 61, p. 433-436, May 1982

1082 26 Article, Properties

Determination of specific heats of coal powders by differential scanning calorimetry
By Vargha-Butler, E.I. / Soulard, M.R. / Hamza, H.A. / Neumann, A.W. University of Toronto, Toronto, Ontario
Fuel, Vol. 61, p. 437-442, May 1982

1082 27 Article, Properties

Gel permeation chromatography applied to the study of the nitrohumic acids from coal
By Moliner, R. / Osacar, J. / Gavilan, J.M. Instituto de Carboquimica, Zaragoza, Spain
Fuel, Vol. 61, p. 443-446, May 1982

1082 28 Article, Properties, Liquefaction

Identification of clay minerals in coal by selective cation saturation
By Barwood, H.L. / Curtis, C.W. / Guin, J.A. / Tarrer, A.R. Auburn University, Auburn, Alabama
Fuel, Vol. 61, p. 463-469, May 1982

1082 29 Article, Properties

Rheological properties of coal tar pitches
By Okazaki, H. Nippon Steel Corporation, Kitakyushu, Japan
Ind Eng Chem Prod Res Dev, Vol. 21, No. 1, p. 130-134, 1982

1082 30 Conference proceedings, Properties, Combustion, Beneficiation

Effect of mineral matter on the coking properties of four western Canadian coals
By Gransden, J.F. / Price, J.T. CANMET, Ottawa, Ontario
CIM 2nd Technical Conf on Western Canadian Coals, June 2-4, 1982, Edmonton, Alberta, 31p., 1981
Report No.: ERP/ERL 81-83

1082 31 Article, Properties

Anisotropic coke like structures produced by carbonization of residues derived from aqueous phase hydrogenolysis of peat with syngas
By Belinko, K. / Kalkreuth, W. / Chornet, E. CANMET, Ottawa, Ontario
Fuel Proc Tech, Vol. 6, p. 75-81, 1982

1082 32 Article, Properties

Effect of low volatile additives on the structure and strength of cokes
By Hartwell, R.R. / Stacey, A.E. / Wilkinson, H.C. British Carbonization Research Association, Chesterfield, Derbyshire, United-Kingdom
Fuel, Vol. 61, No. 4, p. 329-335, 1982

1082 33 Article, Properties, Environment, Gasification, Liquefaction

Formation and destruction of H//2S in the short residence time pyrolysis of pulverized coal and model compounds
By Lester, T.W. / Polavarapu, J. / Merklin, J.F. Kansas State University, Manhattan, Kansas
Fuel, Vol. 61, p. 493-498, June 0982

1082 34 Article, Properties

Structure of the cokes obtained from the group components separated from coking coal vitrites by selective thermosolvolysis
By Jasienko, S. / Gerus-Piasecka, I. Instytut Chemii i Technologii Nafty i Wegla, Wroclaw, Poland
Fuel, Vol. 61, p. 565-569, June 1982

1082 35 Article, Properties

Properties and structure of group components separated from vitrites of coking coals by selective thermosolvolysis
By Jasienko, S. / Gerus-Piasecka, I. Instytut Chemii i Technologii Nafty i Wegla, Wroclaw, Poland
Fuel, Vol. 61, p. 557-564, June 1982

1082 36 Article, Properties

Diffuse reflectane infrared spectrometry of powdered coals
By Fuller, M.P. / Hamadeh, I.M. / Griffiths, P.R. / Lowenhaupt, D.E. Ohio University, Athens, Ohio
Fuel, Vol 61, p. 529-536, June 1982

1082 37 Article, Properties

Moessbauer study of the thermal decomposition of FeS//2 in coal
By Bommannavar, A.S. / Montano, P.A. West-Virginia University, Morgantown, West-Virginia
Fuel, Vol. 61, p. 523-527, June 1982

1082 38 Article, Properties

Aryl alkyl groups in coals
By Deno, N.C. / Jones, A.D. / Koch, C.C. / Minard, R.D. / Potter, T. / Sherrard, R.S. / Stroh, J.G. / Yevak, R.J.
Pennsylvania State University, University-Park, Pennsylvania
Fuel, Vol. 61, p. 490-492, June 1982

1082 39 Article, Properties

Ion chromatographs and columns give better separations
By Wetzel, R. Dionex Corporation, Sunnyvale, California
Ind Res & Dev, p. 92-95, April 1982

1082 40 Article, Properties

Integrated systems make HPLC behavior reliable, versatile
By Nelson, J. Waters Associates, Milford, Massachusetts
Ind Res & Dev, p. 100-104, April 1982

1082 42 Article, Properties

Hydrogen by water electrolysis as basis for small scale ammonia production. A comparison with hydrocarbon based technologies
By Grundt, T. / Christiansen, K. Norsk Hydro, Oslo, Norway
Int J Hydrogen Energy, Vol. 7, No. 3, p. 247-257, 1982

1082 43 Article, Properties

Moving feed point gel permeation chromatography. An improved preparative technique
By Wankat, P.C. / Ortiz, P.M. Purdue University, West-Lafayette, Indiana
Ind Eng Chem Process Des Dev, Vol. 21, p. 416-420, 1982

1082 44 Article, Properties, Environment

Review: Infrared Spectrometry
By McDonald, R.S. General Electric Company, Schenectady, New-York
Anal Chem, Vol. 54, No. 6, p. 1250-1275, 1982

1082 45 Article, Properties

Structural resolution in the Carbon 13 nuclear magnetic resonance spectrometric analysis of coal by cross polarization and magic angle spinning
By Sullivan, M.J. / Maciel, G.E. Colorado State University, Fort-Collins, Colorado
Anal Chem, Vol. 54, No. 6, p. 1606-1615, 1982

1082 46 Article, Properties

Spin dynamics in the carbon 13 nuclear magnetic resonance spectrometric analysis of coal by cross polarization and magic angle spinning
By Sullivan, M.J. / Maciel, G.E. Colorado State University, Fort-Collins, Colorado
Anal Chem, Vol. 54, No. 6, p. 1615-1623, 1982

1082 47 Article, Properties

Theoretical maximal yield of acetylene from coals by plasma pyrolysis
By Dixit, L.P. / Srivastava, S.K. / Chakravartty, S.C. / Bandopadhyay, A.K. Central Fuel Research Institute, Dhanbad, India
Fuel Proc Techn, Vol. 6, p. 85-91, 1982

1082 48 Article, Properties

Peat hydrogenolysis using H//2/CO mixtures: Micropetrological and chemical studies of original material and reaction

residues
By Kalkreuth, W. / Chornet, E. University of Sherbrooke, Sherbrooke, Quebec
Fuel Proc Techn, Vol. 6, p. 93-122, 1982

1082 49 Article, Properties

Properties and structure of metallurgical formed cokes
By Jasienko, S. / Bujnowska, B. Technical University of Wroclaw, Wroclaw, Poland
Fuel Proc Techn, Vol. 6, p. 123-135, 1982

1082 51 Patent, Properties

Active carbon agglomerates
By Wilson, J. / Jones, R.S. Coal Industry (Patents) Limited, London, United-Kingdom
Assignee: Coal Industry, Feb. 1982, 3p., C01B 31/14, Patent: United-Kingdom, 2 080 267 A, May, 1980, Appl. 8016654, Feb. 1982
Report No.: p. 2 080 267 A

1082 52 Article, Properties

Characterization of vitrinite concentrates. 1. Fourier Transform infrared studies
By Kuehn, D.W. / Snyder, R.W. / Davis, A. / Painter, P.C. Pennsylvania State University, University-Park, Pennsylvania
Fuel, Vol. 61, No. 8, p. 682-694, Aug. 1982

1082 53 Article, Properties

X ray structural parameter for coal
By Schoening, F.R. University of Witwatersrand, Johannesburg, South-Africa
Fuel, Vol. 61, No. 8, p. 695-699, Aug. 1982

1082 54 Article, Properties, Combustion

The sedimentation of coal in model oils: The effect of the viscosity and composition of the oil
By Adams-Viola, M. / Botsaris, G.D. / Glazman, Y. Tufts University, Medford, Massachusetts
AIChE J, Vol. 28, No. 3, p. 392-396, May 1982

1082 55 Article, Properties

Use of thermogravimetry for proximate analysis of coals and cokes
By Ottaway, M. Stanton Redcroft Ltd., London, United-Kingdom
Fuel, Vol. 61, No. 8, p. 713-716, Aug. 1982

1082 56 Article, Properties

Carbonization of coals to produce anisotropic cokes. 1. Modifying activities of some additives in the co carbonization of low rank coals
By Mochida, I. / Matsuoka, H. / Korai, Y. / Fujitsu, H. / Takeshita, K. Kyushu University, Kasuga, Japan
Fuel, Vol. 61, No. 7, p. 587-594, July 1982

1082 57 Article, Properties

Carbonization of coals to produce anisotropic cokes. 2. Up grading of modification activities of petroleum process residues and their correlation with structural parameters
By Mochida, I. / Matsuoka, H. / Korai, Y. / Fujitsu, H. / Takeshita, K. Kyushu University, Kasuga, Japan
Fuel, Vol. 61, p. 595-602, July 1982

1082 58 Article, Properties

Molecular structure of bituminous coal studied with pulse nuclear magnetic resonance
By Jurkiewicz, A. / Marzec, A. / Pislewski, N. Polish Academy of Sciences, Gliwice, Poland
Fuel, Vol. 61, No. 7, p. 647-650, July 1982

1082 59 Article, Properties

Evaluation of the quantitative reliability of the carbon 13 CP/MAS technique for the analysis of coals and related materials
By Dudley, R.L. / Fyfe, C.A. University of Guelph, Guelph, Ontario
Fuel, Vol. 61, No. 7, p. 651-657, July 1982

1082 60 Article, Properties

Determination of trace elements in coal by an oxygen bomb combustion/atomic absorption spectrophotometric method
By Lindahl, P.C. / Bishop, A.M. Exxon Production Research Company, Houston, Texas
Fuel, Vol. 61, No. 7, p. 658-662, July 1982

1082 61 Article, Properties

FTIR analysis of coal. 1. Techniques and determination of hydroxyl concentrations
By Solomon, P.R. / Carangelo, R.M. Advanced Fuel Research Inc., East-Hartford, Connecticut
Fuel, Vol. 61, No. 7, p. 663-669, July 1982

1082 62 Article, Properties

Pyrolysis field desorption mass spectrometry of coal
By Schulten, H.R. University of Bonn, Bonn, Germany
Fuel, Vol. 61, No. 7, p. 670-676, July 1982

1082 63 Article, Properties, Transportation

Dielectric constants of coal water slurries at 750 MHz
By Goldberg, I.B. / Chung, K.E. Rockwell International, Thousand-Oaks, California
Fuel, Vol. 61, No. 8, p. 735-740, Aug. 1982

1082 64 Article, Properties

Estimation of the concentration of donatable hydrogen in a coal solvent by n.m.r.
By Clarke, J.W. / Rantell, T.D. / Snape, C.E. National Coal Board, Cheltenham, Gloucestershire, United-Kingdom
Fuel, Vol. 61, No. 8, p. 707-712, Aug. 1982

1082 65 Article, Properties

Hydrogen transfer reactions of model compounds typical of coal
By Cronauer, D.C. Gulf Research and Development Company, Pittsburgh, Pennsylvania
Ind Eng Chem Fundam, Vol. 21, p. 236-242, 1982

1082 66 Article, Properties

Influence of coal characteristics on CO//2 gasification
By Sakawa, M. / Sakurai, Y. / Hara, Y. Nippon Steel Corporation, Kawasaki, Japan
Fuel, Vol. 61, No. 8, p. 717-719, Aug. 1982

1082 67 Conference proceedings, Properties

Coal decomposition: effects of heating rate and furnace atmosphere
By Serageldin, M.A. / Pan, W.P. Michigan Technological University, Houghton, Michigan
Pap Pres at 32 Can Chem Eng Conf, Vancouver, British-Columbia, Oct. 3-6, 1982, Vol. 1, p. 442-451, 1982

1082 68 Conference proceedings, Properties

Investigation to develop methods for removal of oxygen from coals
By Cooke, N.E. / Khandhadia, P.S. / Furimsky, E. SNC, Inc., Montreal, Quebec
Pap Pres at 32 Can Chem Eng Conf, Vancouver, British-Columbia, Oct. 3-6, 1982, Vol. 1, p. 471-480, 1982

1082 69 Article, Properties, Geology, Liquefaction

Development of coal research - a review
By Van-Krevelen, D.W. Delft University of Technology, Delft, Netherlands
Fuel, Vol. 61, No. 9, p. 786-790, Sept. 1982

1082 70 Article, Properties, Liquefaction, Gasification

Structural analysis of tars from fluidized bed pyrolysis of coal. 1. Gas liquid chromatography of aliphatic and aromatic subfractions
By Stompel, Z.J. / Bartle, K.D. / Frere, B. University of Leeds, Leeds, United-Kingdom, Sept. 1982

1082 71 Article, Properties

Study of the reaction of cokes with KOH under nitrogen
By Marsh, H. / Wilkinson, A. / Machnikowski, J. University of Newcastle-upon-Tyne, Newcastle-upon-Tyne, United-Kingdom
Fuel, Vol. 61, No. 9, p. 834-839, Sept. 1982

1082 72 Article, Properties

Reactions of small covalent molecules with coal: trifluoroacetic acid
By Hagen, A.P. / Bynum, R.L. / Kapila, V.P. / Miller, T.S. University of Oklahoma, Norman, Oklahoma
Fuel, Vol. 61, No. 9, p. 840-842, Sept. 1982

1082 73 Article, Properties

Structure in a coking coal vitrinite - a high resolution electron microscopy study
By Marsh, H. / Crawford, D. University of Newcastle-upon-Tyne, Newcastle-upon-Tyne, United-Kingdom
Fuel, Vol. 61, No. 9, p. 876-878, Sept. 1982

1082 74 Article, Properties, Liquefaction

Differential pulse voltammetry at the Hanging Mercury Drop electrode for identification of aromatic structures in coal extracts
By Bartle, K.D. / Gibson, C. / Mills, D. / Mulligan, M.J. / Taylor, N. / Martin, T.G. / Snape, C.E. University of Leeds, Leeds, United-Kingdom
Anal Chem, Vol. 54, No. 11, p. 1730-1733, Sept. 1982

1082 75 Article, Properties

Analysis of polycyclic aromatic compounds containing nitrogen and oxygen by matrix isolation fourier transform infrared spectroscopy
By Garrison, A.A. / Mamantov, G. / Wehry, E.L. University of Tennessee, Knoxville, Tennessee
Appl Spectrosc, Vol. 36, No. 4, p. 348-352, 1982

1082 76 Article, Properties

A rapid screening procedure for a 2 aminonaphthalene in natural, synthetic refined crudes
By Tomkins, B.A. / Ostrum, V.H. / Caton, J.E. Oak-Ridge National Laboratory, Oak-Ridge, Tennessee
Anal Chim Acta, Vol. 134, p. 301-311, 1982

1082 77 Article, Properties

Applications of hydride generation - atomic absorption spectrometry to coal analysis
By Nadkarni, R.A. Exxon Research and Engineering Company, Baytown, Texas
Anal Chim Acta, Vol. 135, No. 2, p. 363-368, 1982

1082 78 Article, Properties

Characterization of pitches by differential scanning calorimetry and thermomechanical analysis
By Barr, J.B. / Lewis, I.C. Union Carbide Corporation, Cleveland, Ohio
Thermochim Acta, Vol. 51, No. 1-3, p. 297-304, 1982

1082 79 Article, Properties

Characterization of Brazilian high ash coals by small angle x ray diffraction methods
By Gonzalez, J. / Torriani, I.L. / Luengo, C.A. Universidade Estadual de Campinas, Sao-Paulo, Brazil
J Appl Cryst, Vol. 15, No. 3, p. 251-254, 1982

1082 80 Article, Properties, Geology

Chemical analyses and physical properties of 12 coal samples from the Pocahontas Field, Tazewell County, Virginia, and McDowell County, West Virginia
By Trent, V.A. / Medlin, J.H. / Coleman, S.L. / Stanton, R.W. Geological Survey, Washington, District-of-Columbia
Geo Surv Bull, No. 1528, 37p., 1982

1082 81 Article, Properties

Coal analysis by means of neutron gamma activation analysis and x ray techniques
By Leonhardt, J.W. / Bothe, H.K. / Langrock, E.J. / Maul, E. / Morgenstern, P. / Muller, D. / Thuemmel, H.W.
J Radioanal Chem, Vol. 71, No. 1-2, p. 181-187, 1982

1082 82 Article, Properties

Hydrocarbon class fractionation with bonded phase liquid chromatography
By Miller, R. Perkin-Elmer Corporation, Norwalk, Connecticut
Anal Chem, Vol. 54, No.11, p. 1742-1746, Sept. 1982

ENERGY POLICY

1145 0 Book, Energy Policy

A brief submitted to the Royal Commission on Coal, by District No. 18, United Mine Workers of America, Calgary, Alberta
United Mine Workers of America, District No. 18, Calgary, Alberta
Royal Commission on Coal, April 1945

1145 1 Book, Energy Policy

Submission of the Canadian Pacific Railway Company to the Royal Commission on Coal

The Royal Commission on Coal, Oct. 1945

1155 0 Book, Energy Policy

Prospects for development in Manitoba. A submission presented to the Royal Commission on Canada's Economic Prospects, by the Government of the Province of Manitoba
Government of the Province of Manitoba, Winnipeg, Manitoba
The Royal Commission on Canada's Economic Prospects, Nov. 1955

1158 0 Book, Energy Policy

Submission of National Coal Association, Washington, D.C., to the Canadian Royal Commission on Energy
By Hall, R.E. / McGrath, J.J. / VanScoyoc, M.W. National Coal Association, Washington, District-of-Columbia
Royal Commission on Energy, Calgary, Alberta, May 1958

1158 1 Report, Energy Policy

Submission to the Royal Commission on Energy by Saskatchewan Coal Operators

The Royal Commission on Energy, May 1958

1159 0 Book, Energy Policy

Submission to the Royal Commission on Coal (1959) by Dominion Coal Company, Limited

The Royal Commission on Coal (1959), 1959

1160 0 Book, Energy Policy

Fossil fuels in the future
By Searl, M.F.
United-States Department of Energy, Washington, D.C., Oct. 1960

Report No.: NTIS.TID-8209

1160 1 Book, Energy Policy

To the Royal Commission on Coal (1959) Submission of District 18, United Mine Workers of America
United Mine Workers of America, District No. 18, Calgary, Alberta
The Royal Commission on Coal (1959), March 1960

1169 0 Article, Energy Policy

National energy board: Future requirements and long range planning
By Conybeare, C.E.
Aust. Min., Feb. 1969, Iss. 2, p. 55-57, Feb. 1969

1169 1 Article, Energy Policy, Geology

Coal
By Simpson, R.A. / Chrismas, L.P.
Can. Min. J., Feb. 1969, Iss. 2, p. 133-136, Feb. 1969

1169 2 Article, Energy Policy, Geology

Evaluation of fuels: long term factors and considerations
By Risser, H.E.
Ill. State Geol. Surv., Miner. Econ. Brief, Oct. 1969, Iss. 26, p. 7, Oct. 1969
Report No.: ISGS. 26

1170 0 Article, Energy Policy, Geology

Coal
By Chrismas, L.P.
Can. Min. J., Feb. 1970, Iss. 2, p. 155-160, Feb. 1970

1171 1 Book, Energy Policy

The U.S. energy problem, Vol. 1, summary
By Szego, G.C. InterTechnology Corporation, Warrenton, Virginia
National Science Foundation, Washington, D.C., PB-207-517, 67 p., Nov. 1971
Report No.: NSF-RANN-71-1-1

1171 2 Book, Energy Policy

The U.S. energy problem, Vol. 2, appendices part A

By Szego, G.C. InterTechnology Corporation, Warrenton, Virginia
National Science Foundation, Washington, D.C., PB207-518, 730 p., Nov. 1972
Report No.: NSF-RANN 71-1-2

1171 3 Book, Energy Policy

The U.S. energy problem, Vol. 2, appendices, Part B
By Szego, G.C. InterTechnology Corporation, Warrenton, Virginia
National Science Foundation, Washington, D.C., PB-207-519, 579 p., Nov. 1971
Report No.: NSF-RANN-71-1-3

1172 0 Book, Energy Policy

Patterns of energy consumption in the United States
Stanford Research Institute, Menlo-Park, California
Office of Science and Technology, Washington, D.C., Jan. 1972
Report No.: NTIS.PB-212 776

1172 1 Article, Energy Policy

The pressure of limited resources and rising demand for energy
By Bell, E.S.
Power Generation Planning, National Energy Board, May 1972

1172 2 Book, Energy Policy

Energy, resources and the environment
By Zraket, C.A. MITRE Corporation, Westgate Research Park, McLean, Virginia
The MITRE Corporation, Westgate Research Park, McLean, Virginia, Oct. 1972
Report No.: NTIS.PB-213 031

1172 3(*) Conference proceedings, Energy Policy

Symposium on energy, resources and the environment, Volume 3
MITRE Corporation, Westgate Research Park, McLean, Virginia
The MITRE Corporation, Westgate Research Park, McLean, Virginia, Oct. 1972
Report No.: NTIS.PB-213 039

1172 4(*) Conference proceedings, Energy Policy

Symposium on energy, resources and the environment, Volume 1
MITRE Corporation, Westgate Research Park, McLean, Virginia
The MITRE Corporation, Westgate Research Park, McLean, Virginia, April 1972
Report No.: NTIS.PB-213 037

1172 5 Book, Energy Policy

The potential for energy conservation

Executive Office of the President, Office of Emergency Preparedness, Oct. 1972
Report No.: NTIS.PB-213 722

1172 6(*) Conference proceedings, Energy Policy

Symposium on energy, resources and the environment, Volume 2
MITRE Corporation, Westgate Research Park, McLean, Virginia
The MITRE Corporation, Westgate Research Park, McLean, Virginia, Oct. 1972
Report No.: NTIS.PB-213 038

1173 0 Book, Energy Policy

An assessment of new options in energy research and development
Office of Science and Technology, Washington, District-of-Columbia
National Science Foundation, Washington, D.C. 283 p., Nov. 1973
Report No.: PB-229-725

1174 0(*) Conference proceedings, Energy Policy, Transportation

26th Canadian conference on coal
Canada Department of Energy, Mines and Resources, Ottawa, Ontario
Proceedings of the 26th Canadian Conference on Coal, Calgary, Alberta, Sept. 1974

1174 1 Book, Energy Policy

Energy Statistics, a supplement of the summary of national transportation statistics
By Gay, W.F. United-States Department of Transportation, Transportation Systems Center, Cambridge, Massachusetts
United-States Department of Transportation, Office of the Secretary, Washington, D.C., Aug. 1974
Report No.: NTIS.PB-238 767

1174 2 Book, Energy Policy

Hydrogen energy
By Cox, K.E.
Energy Information Center, The University of New-Mexico, Albuquerque, New-Mexico, Jan. 1974
Report No.: NTIS.PB-230 845

1174 3 Book, Energy Policy

An energy policy for Canada, Phase One, Volume I - Analysis

Department of Energy, Mines and Resources, Ottawa, Canada, 1974
Report No.: EMR.M27-373

1174 4 Book, Energy Policy

An energy policy for Canada, Phase Two, Volume II - Appendices

Department of Energy, Mines and Resources, Ottawa, Canada, 1974
Report No.: EMR.M27-373

1174 5 Article, Energy Policy, Properties

Metallurgical coals in Canada
By Lang, P.J. Steel Company of Canada Limited, Hamilton, Ontario
Southern Coals Conference Inc., Cincinnati, Ohio, Oct. 1974

1174 6 Report, Energy Policy, Properties

Workshop on fundamental research in homogeneous catalysis as related to U.S. energy problems
By Norton, J. Stanford University, Stanford, California
National Science Foundation, Washington, D.C., PB80-157-365, 36 p., Dec. 1974
Report No.: NSF-RA-N-74-454

1175 0(*) Conference proceedings, Energy Policy, Transportation

27th Canadian conference on coal
Canada Department of Energy, Mines and Resources, Ottawa, Ontario
Proceedings of the 27th Canadian conference on coal, Vancouver, British-Columbia, Sept. 1975

1176 0 Report, Energy Policy, Gasification

Economic feasibility study, fuel grade methanol from coal for office of commercialization of the Energy Research and Development Administration
By McGeorge, A. E.I. Du Pont De Nemours & Company, Inc., Wilmington, Delaware
United-States Energy Research and Development Administration, Washington, D.C., 1976
Report No.: NTIS.TID-27606

1176 1 Conference proceedings, Energy Policy

Third annual UMR MEC conference on energy
By Morgan, J.D. University of Missouri-Rolla, Rolla, Missouri
Proceedings of the Third Annual UMR-MEC Conference on Energy, Vol. 3, Rolla, Missouri, Oct. 1976

1176 2 Conference proceedings, Energy Policy

Coal oil slurries as a device to conserve fuel oil in existing industrial furnaces
By Carter, L. Registered Professional Engineer, Kirkwood, Missouri
Proceedings of the Third Annual UMR-MEC Conference on Energy, Vol. 3, Rolla, Missouri, p. 456-463, Oct. 1976

1176 3 Conference proceedings, Energy Policy

A total present worth economic comparison of coal and nuclear fuel energy alternatives
By Tulenko, D.M. / Ostwald, P.F. / Timmerhaus, K.D. University of Colorado, Boulder, Colorado
Proceedings of the Third Annual UMR-MEC Conference on Energy, Vol. 3, Rolla, Missouri, p. 760-767, Oct. 1976

1176 4 Article, Energy Policy

Development of a National coal inventory for Canada
By Jamieson, E.D.
Department of Energy, Mines and Resources, Ottawa, Canada, Oct. 1976

1176 5 Book, Energy Policy

The economics of nuclear and coal power
By Miller, S.
Praeger Special Studies in United-States Economic, Social, and Political Issues, Praeger Publishers, New-York, New-York, 1976

1176 6 Book, Energy Policy, Mining

Current and future use of coal in the northeast
By Edelston, B.S. / Rubin, E.S. Brookhaven National Laboratory, Upton, New-York
Energy Research and Development Administration, Washington, D.C., May 1976
Report No.: NTIS.BNL 50560

1176 7 Book, Energy Policy

Regional energy system for the planning and optimization of national scenarios repons. Final report. Clean coal energy: Source to use economics project
By Nagarvala, P.J. / Ferrell, G.C. / Oiver, L.A. Bechtel, San-Francisco, California
Energy Research and Development Administration, Washington, D.C., June 1976
Report No.: NTIS.ERDA-76-109

1176 8 Book, Energy Policy, Gasification

A socioeconomic assessment of energy development in a small rural county: coal gasification in Mercer County, North Dakota

By Baldwin, T.E. / Dixon-Davis, D. / Stenehjem, E.J. / Wolsko, T.D. Argonne National Laboratory, Argonne, Illinois
United-States Department of Energy, Washington, D.C., Aug. 1976
Report No.: NTIS.ANL/AA-5

1176 9 Book, Energy Policy

National Energy Outlook

Federal Energy Administration, Washington, D.C., Feb. 1976
Report No.: FEA-N-75/713

1176 10 Report, Energy Policy

Energy from coal, a state of the art review
Tetra Tech, Inc., Arlington, Virginia
United-States Energy Research and Development Administration, Washington, District-of Columbia, 1976
Report No.: ERDA 76-67

1177 0 Report, Energy Policy, Environment

Energy from the West: A progress report of a technology assessment of Western energy resource development. Executive summary
By White, I.L. Oklahoma State University, Stillwater, Oklahoma
Office of Research and Development, United-States Environmental Protection Agency, Washington, D.C., Oct. 1977
Report No.: NTIS.PB-278 848

1177 1 Conference proceedings, Energy Policy

Energy development III
Institute of Electrical and Electronics Engineers Inc., New-York, New-York
The Institute of Electrical and Electronics Engineers Inc., New-York, New-York, 1977
Report No.: IEEE.77CH1215-3-PWR

1177 2 Conference proceedings, Energy Policy

Dynamic modeling and control of magnetohydrodynamic/steam systems
By Aspens, J. / Pierre, D.A. University of New-Hampshire, Durham, New-Hampshire
The Institute of Electrical and Electronics Engineers Inc., New-York, New-York, p. 7-15, 1977
Report No.: IEEE.77CH1215-3-PWR

1177 3 Conference proceedings, Energy Policy, Liquefaction

Coal based options for generation of electricity
By Harrison, W.B. Southern Company Services, Inc., Birmingham, Alabama
The Institute of Electrical and Electronics Engineers Inc., New-York, New-York, p. 16-19, 1977
Report No.: IEEE.77CH1215-3-PWR

1177 4 Conference proceedings, Energy Policy

Corporate research and development in alternate energy
By Herman, S.W. / Cannon, J.S. INFORM, New-York, New-York
The Institute of Electrical and Electronics Engineers Inc., New-York, New-York, p. 20-24, 1977
Report No.: IEEE.77CH1215-3-PWR

1177 5 Conference proceedings, Energy Policy

Evaluation of wind generator economics in a load duration context
By Jones, B.W. / Moretti, P.M. Oklahoma State University, Stillwater, Oklahoma
The Institute of Electrical and Electronics Engineers Inc., New-York, New-York, p. 25-29, 1977
Report No.: IEEE.77CH1215-3-PWR

1177 6 Conference proceedings, Energy Policy

The utilization of solid wastes for the generation of electric power
By Meyers, S. / Sussman, D.B. United-States Environmental Protection Agency, Washington, District-of-Columbia
The Institute of Electrical and Electronics Engineers Inc., New-York, New-York, p. 30-33, 1977
Report No.: IEEE.77CH1215-3-PWR

1177 7 Conference proceedings, Energy Policy

Hybrid simulation of fuel cell power conversion systems
By Michaels, L.H. / Fairchild, B.T. / Kohn, S.T. Electronic Associates, Inc., West-Long-Branch, New-Jersey
The Institute of Electrical and Electronics Engineers Inc., New-York, New-York, p. 34-41, 1977
Report No.: IEEE.77CH1215-3-PWR

1177 8 Conference proceedings, Energy Policy

A forecast of electric power generation technology - 1975 - 2000
By Hauser, L.G. Westinghouse Electric Corporation, Pittsburgh, Pennsylvania
The Institute of Electrical and Electronics Engineers Inc., New-York, New-York, p. 56-63, 1977
Report No.: IEEE.77CH1215-3-PWR

1177 9 Conference proceedings, Energy Policy

Electric energy alternatives appraisal for New York State
By Becker, M. / Kaufman, A. Rensselaer Polytechnic Institute, Troy, New-York
The Institute of Electrical and Electronics Engineers Inc., New-York, New-York, p. 64-69, 1977
Report No.: IEEE.77CH1215-3-PWR

1177 10 Conference proceedings, Energy Policy

Putting alternative sources of energy into perspective
By Budenholzer, R.A. / Lavan, Z. Illinois Institute of Technology, Chicago, Illinois
The Institute of Electrical and Electronics Engineers Inc., New-York, New-York, p. 70-76, 1977
Report No.: IEEE.77CH1215-3-PWR

1177 11 Conference proceedings, Energy Policy

An econometric analysis of energy over the next 75 years
By Schmitt, R.W. / BenDaniel, D.J. / Stewart, P.J. / Manne, A.S. General Electric Company, Schenectady, New-York
The Institute of Electrical and Electronics Engineers Inc., New-York, New-York, p. 77-85, 1977
Report No.: IEEE.77CH1215-3-PWR

1177 12 Conference proceedings, Energy Policy

Storage of off peak thermal energy in oil
By Cahn, R.P. / Nicholson, E.W. Exxon Research and Engineering Company, Linden, New-Jersey
The Institute of Electrical and Electronics Engineers Inc., New-York, New-York, p. 86-91, 1977
Report No.: IEEE.77CH1215-3-PWR

1177 13 Conference proceedings, Energy Policy

Hydrogen cycle peak shaving on the New York state grid using fuel cells
By Fernandes, R.A. / Philipp, H.D. Niagara Mohawk Power Corporation, Syracuse, New-York
The Institute of Electrical and Electronics Engineers Inc., New-York, New-York, p. 92-100, 1977
Report No.: IEEE.77CH1215-3-PWR

1177 14 Conference proceedings, Energy Policy

The battery energy storage test (best) facility: Its purposes and description
By Beck, J.W. / Smith, J.C. Electric Power Research Institute, Palo-Alto, California
The Institute of Electrical and Electronics Engineers Inc., New-York, New-York, p. 101-107, 1977
Report No.: IEEE.77CH1215-3-PWR

1177 15 Conference proceedings, Energy Policy

Evaluation of offshore site for wind energy generation
By Kirschbaum, H.S. / Somers, E.V. / Sulzberger, V.T. Westinghouse Electric Corporation, Pittsburgh, Pennsylvania
The Institute of Electrical and Electronics Engineers Inc., New-York, New-York, p. 108-123, 1977
Report No.: IEEE.77CH1215-3-PWR

1177 16 Conference proceedings, Energy Policy, Beneficiation

Coal desulfurization by the Battelle hydrothermal coal process

By Stambaugh, E.P. / Miller, J.F. / Tam, S.S. / Chauhan, S.P. / Feldmann, H.F. / Carlton, H.E. / Foster, J.F. / Nack, N. / Oxley, J.H. Battelle Columbus Laboratories, Columbus, Ohio
The Institute of Electrical and Electronics Engineers Inc., New-York, New-York, p. 124-127, 1977
Report No.: IEEE.77CH1215-3-PWR

1177 17 Conference proceedings, Energy Policy

The gas turbine HTGR plant with a binary cycle
By Schoene, T.W. / Neill, J.M. / Cummings, R.L. General Atomic Company, San-Diego, California
The Institute of Electrical and Electronics Engineers Inc., New-York, New-York, p. 128-134, 1977
Report No.: IEEE.77CH1215-3-PWR

1177 18 Conference proceedings, Energy Policy

Theoretical method to determine monthly efficiency of flat plate solar collectors
By Chouard, P. / Michel, H. / Simon, M.F. EDF, Les-Renardieres, France
The Institute of Electrical and Electronics Engineers Inc., New-York, New-York, p. 135-141, 1977
Report No.: IEEE.77CH1215-3-PWR

1177 19 Conference proceedings, Energy Policy

Solar energy and domestic heating needs
By Simon, M.F. / Michel, H. EDF, Les-Renardieres, France
The Institute of Electrical and Electronics Engineers Inc., New-York, New-York, p. 142-146, 1977
Report No.: IEEE.77CH1215-3-PWR

1177 20 Conference proceedings, Energy Policy

Some problems concerning solar cell arrays in the design of solar electrical systems
By Biran, D. / Braunstein, A. Tel-Aviv University, Tel-Aviv, Israel
The Institute of Electrical and Electronics Engineers Inc., New-York, New-York, p. 147-150, 1977
Report No.: IEEE.77CH1215-3-PWR

1177 21 Conference proceedings, Energy Policy

The potential for application of energy storage capacity on electric utility systems in the United States - part II
By Sulzberger, V.T. / Zemkoski, J. Public Service Electric and Gas Company, Newark, New-Jersey
The Institute of Electrical and Electronics Engineers Inc., New-York, New-York, p. 151-159, 1977
Report No.: IEEE.77CH1215-3-PWR

1177 22 Conference proceedings, Energy Policy

Power generation in Canada to 2000 A.D.
By Broe, K.L. Canadian General Electric Company Limited, Montreal, Canada
The Institute of Electrical and Electronics Engineers Inc., New-York, New-York, p. 160-165, 1977

Report No.: IEEE.77CH1215-3-PWR

1177 23 Conference proceedings, Energy Policy

The energy plantation as an alternative source of fuels
By Fraser, M.D. / Henry, J.F. / Vail, C.W. InterTechnology Corporation, Warrenton, Virginia
The Institute of Electrical and Electronics Engineers Inc., New-York, New-York, p. 166-174, 1977
Report No.: IEEE.77CH1215-3-PWR

1177 24 Conference proceedings, Energy Policy

The present status of fusion power
By Scott, F.R. Electric Power Research Institute, Palo-Alto, California
The Institute of Electrical and Electronics Engineers Inc., New-York, New-York, p. 42-47, 1977
Report No.: IEEE.77CH1215-3-PWR

1177 25 Conference proceedings, Energy Policy

Control and dynamic analysis of a wind energy conversion and storage system operating at constant velocity ratio
By Simkovits, H.R. / Kassakiam, J.G. Massachusetts Institute of Technology, Cambridge, Massachusetts
The Institute of Electrical and Electronics Engineers Inc., New-York, New-York, p. 48-55, 1977
Report No.: IEEE.77CH1215-3-PWR

1177 26 Book, Energy Policy

Energy Update 1977
By Gillespie, A.
Information EMR, Department of Energy, Mines and Resources, Canada, Report No. EI 78-2, 1977
Report No.: EMR.EL 78-2

1177 27 Report, Energy Policy

Reflections on Canada's Fossil Fuels
By Hunt, A.D. Canada Department of Energy, Mines and Resources, Ottawa, Ontario
Canadian Institute for Mining and Metallurgy Annual Meeting, April 1977

1177 28 Article, Energy Policy, Gasification, Liquefaction

Alternate fuels and energy program
By Fatum, J.H.
The 50th Annual Meeting Minnesota Section AIME, and the 38th Annual Mining Symposium, held in Duluth, Minnesota, Jan. 1977

1177 29(*) Conference proceedings, Energy Policy

The 29th Canadian conference on coal
By Canada Department of Energy, Mines and Resources, Ottawa, Ontario
Proceedings of the 29th Canadian conference on coal, Edmonton, Alberta, Oct. 1977

1177 30 Book, Energy Policy

Coal on the switchback: The coal industry since nationalisation
By Berkovitch, I.
George Allen and Unwin Ltd., Ruskin House, Museum Street, London, 1977

1177 31 Book, Energy Policy

United States coal development - Promises, uncertainties

Comptroller General of the United-States, Washington, D.C., Sept. 1977
Report No.: NTIS.EMD-77-43

1177 32 Report, Energy Policy

Project plan 1977 - 1979. National coal utilization assessment
By Goldberg, A.J. / Cooper, R.D.
Energy Research and Development Administration, Washington, D.C., March 1977
Report No.: NTIS.ERDA 77-19

1177 33 Book, Energy Policy

Economic and technical criteria for coal utilization plant. Part IV. Power generation
By Eriksson, S. / Forrester, R.C. / Johnston, R. / Teper, M. IEA Coal Research, London, United-Kingdom
International Energy Agency, Economic Assessment Service, London, England, Dec. 1977

1177 34 Book, Energy Policy

Economic and technical criteria for coal utilization plant. Part 1. Economic and Financial conventions
By Eriksson, S. / Forrester, R.C. / Johnston, R. / Teper, M. IEA Coal Research, London, United-Kingdom
International Energy Agency, Economic Assessment Service, London, England, Dec. 1977

1177 35 Book, Energy Policy, Gasification

Economic and technical criteria for coal utilization plant. Part II. Gasification processes
By Eriksson, S. / Forrester, R.C. / Johnston, R. / Teper, M. IEA Coal Research, London, United-Kingdom
International Energy Agency, Economic Assessment Service, London, England, Dec. 1977

1177 36 Book, Energy Policy

Published plans and projections for coal production, trade and consumption
By Lee, H.M. IEA Coal Research, London, United-Kingdom
International Energy Agency, Economic Assessment Service, London, England, Dec. 1977

1177 37 Book, Energy Policy, Transportation

An evaluation of regional trends in power plant siting and energy transport
By Cirillo, R.R. / Wolsko, T.D. / Mueller, R.O. / Dauzvardis, P.A. / Senew, M.J. / Gamauf, K. / Seymour, D.A. Argonne National Laboratory, Argonne, Illinois
United-States Energy Research and Development Administration, Washington, D.C., July 1977
Report No.: NTIS.ANL/AA-9

1177 38 Book, Energy Policy

Survey of electric utility demand for western coal
By Asbury, J.G. / Kim, H.T. / Kouvalis, A. Argonne National Laboratory, Argonne, Illinois
United-States Energy Research and Development Administration, Washington, D.C., Jan. 1977
Report No.: NTIS.ANL/SPG-1

1177 39 Article, Energy Policy, Exploration, Geology

Black coal
By Patterson, K.
Aust Miner Ind Annu Rev, p. 95-119, 1977

1177 40 Book, Energy Policy

The price and availability of low sulfur coal in eastern markets July 1977
By Krohm, G.C. / Dux, C.D. Argonne National Laboratory, Argonne, Illinois
United-States Department of Energy, Washington, D.C., July 1977
Report No.: NTIS.ANL/AA-12

1177 41 Book, Energy Policy

Effects on regional coal markets of the best available control technology policy for sulfur emissions
By Dux, C.D. / Krohm, G.C. / Van-Kuiken, J.C. Argonne National Laboratory, Argonne, Illinois
United-States Department of Energy, Washington, D.C., Dec. 1977
Report No.: NTIS.UC-90

1177 42 Article, Energy Policy, Liquefaction

A comparison of coal and biomass as feedstocks for synthetic fuel production
By Antal, M.J.

Proc Condens Pap - Miami Int Conf Alternative Energy Sources, p. 151-152, 1977

1177 43 Book, Energy Policy

Medium term aspects of a coal revival: Two case studies, Report of the IIASA Coal Task Force
By Sassin, W. / Hoffmann, F. / Sadnicki, M.
International Institute for Applied Systems Analysis, A-2361 Laxenburg, Austria, Aug. 1977
Report No.: IIAS.CP-77-5

1177 44(*) Conference proceedings, Energy Policy, Mining, Transportation, Gasification

Symposium on coal dilemma: How and where to use it
By Pelofsky, A.H. American Chemical Society, Washington, District-of-Columbia
Proceedings of the symposium held in Colorado-Springs, Colorado, published by Cameron Engineers, Inc., Denver, Colorado, Feb. 1977

1177 45 Book, Energy Policy

Use of Canadian coals by Stelco
By Kay, A.W. Steel Company of Canada Limited, Hamilton, Ontario
Steel Company of Canada, Limited, Hamilton, Ontario, May 1977

1177 46 Book, Energy Policy

Using net energy methodology for energy planning tradeoffs of supply vs. end use technologies, Volume 1 and 2, final report
Development Sciences Inc., East-Sandwich, Massachusetts
United-States Energy Research and Development Administration, 364p., April 1977
Report No.: FE-2443/1,2

1177 47 Report, Energy Policy

Net energy analysis of five energy systems
By Perry, A.M. / Devine, W.D. / Cameron, A.E. / Marland, G. / Plaza, H. / Reister, D.B. / Treat, N.L. / Whittle, C.E.
Oak-Ridge Associated Universities, Oak-Ridge, Tennessee
NTIS, United-States Department of Commerce, 143p., Sept. 1977
Report No.: ORAU/IEA(R)-77-12

1177 48 Article, Energy Policy

Coal: keystone of energy fuels
By Schmidt, R.A. Electric Power Research Institute, Palo-Alto, California
EPRI Journal, August, 1977, p. 6-11, 1977

1178 0 Article, Energy Policy

Studies of United States primary energy supply: A review
By Epple, D.
Energy Syst. Policy, Vol. 2, No. 3, p. 245-265, 1978

1178 1 French Article, Energy Policy, Mining

Future of coal in Great Britain
By Hodson, R.
Rev. Energ., Vol. 29, No. 301, Feb. 1978, p. 59-65, Feb. 1978

1178 2 Book, Energy Policy

Projects to expand energy sources in the Western States - An update of information circular 8719
By Rich, C.H.
United-States Bur. Mines Inf. Circ., No. 8772, 1978
Report No.: BOM.IC 8772

1178 3 Article, Energy Policy

Outlook for future energy supplies and costs
By Humphreys, K.K. West-Virginia University, Morgantown, West-Virginia
West-Virginia Univ. Coal Res. Bur. Sch. Mines Tech. Rep., No. 151, 1978
Report No.: WVA.151

1178 4 Article, Energy Policy

Energy crisis: Energy Solution: Two case histories
By Moody, J.D.
Am. Assoc. Pet. Geol. Bull., Feb. 1978, Iss. 2, p. 176-180, Feb. 1978

1178 5 Report, Energy Policy

Introduction to energy in Canada

Energy Policy Sector of Information Energy, Mines and Resources, Canada, 1978

1178 6 Article, Energy Policy

Research challenge: Clean energy from coal
By Cooper, B.R.
Physics Today, Aug. 1978, Vol. 31, Iss. 8, p. 32-39, Aug. 1978

1178 7 Article, Energy Policy

Energy for the third world
By Martin, W.F. / Pinto, F.J.P.
Technol. Rev., Vol. 80, No. 7, July 1978, p. 48-56, July 1978

1178 8 Report, Energy Policy

Coal for the future: progress with plan for coal and prospects to the year 2000
By Benn, T.
Department of Energy, Thames House South, Millbank, London, March 1978

1178 9 Book, Energy Policy

Coal and Energy
By Ezra, D.
Ernest Benn, London and Tonbridge, 1978

1178 10 Report, Energy Policy

Saskatchewan coal policy 1978

Saskatchewan Mineral Resources, Miscellaneous Report 78-8, Saskatchewan, 1978
Report No.: SMR.78-8

1178 11 Book, Energy Policy, Geology

Coal resources, characteristics and ownership in the United States of America, Washington, D.C.
By Noyes, R.
Noyes Data Corporation, Park-Ridge, New-Jersey, 1978

1178 12 Article, Energy Policy

Fuels and chemicals from coal - Some energy and resource implications for the United Kingdom
By Stratton, A.
Chem. Ind. (London), Iss. 15, p. 551-560, 1978

1178 13 Article, Energy Policy

Short term coal demand modelling
By Cohen, B.N. / Uri, N.D. / Maybee, J.S. United-States Department of Energy, Washington, District-of-Columbia
Energy Commun., Vol. 4, No. 5, p. 405-431, 1978

1178 14 . Article, Energy Policy, Combustion

Conversion to coal - Fact or fiction
By Richards, C.L.
Combustion, Vol. 49, No. 10, April 1978, p. 7-13, April 1978

1178 15 Article, Energy Policy

Supply demand forecast thru the year 2000
By Lockwood, D.L. Cameron Engineers, Inc., Denver, Colorado
Coal Min. Process, Vol. 15, No. 8, Aug. 1978, p. 55-58, Aug. 1978

1178 16 Article, Energy Policy

Storm under stored waters - NSW Dept of Mines v Metropolitan Water Board

Aust Min, Vol. 70, No. 10, Oct. 1978, p. 43, 45-46, Oct. 1978

1178 17(*), Conference proceedings, Energy Policy

National energy policy: A continuing assessment
By Fisher, W.L.
University of Texas at Austin, Council on Energy Resources, Austin, Texas, Jan. 1978

1178 18 Book, Energy Policy, Geology

Economic and fiscal impacts of coal development: Northern Great Plains
By Krutilla, J.V. / Fisher, A.C. / Rice, R.E.
Published for Resources for the Future by the Johns Hopkins University Press, Baltimore and London, 1978

1178 19 Book, Energy Policy, Gasification, Liquefaction, Combustion

Fossil energy research program of the energy research and development administration
By White, P.C.
Energy Research and Development Administration, Washington, D.C., April 1977
Report No.: NTIS.ERDA 77-33

1178 20 Book, Energy Policy

Fossil energy program report. July 1975 - October 1976
By White, P.C.
Energy Research and Development Administration, Washington, D.C., Sept. 1977
Report No.: NTIS.ERDA 77-70

1178 21 Book, Energy Policy

Market opportunities for low and intermediate Btu gas from coal in selected areas of industrial concentration
By Olsen, D.L. SRI International, Menlo-Park, California
United-States Department of Energy, Washington, D.C., June 1978
Report No.: NTIS.HCP/T2441-02

1178 22 Article, Energy Policy

Future of coal in New Brunswick depends on reasonable regulations
By O'Connor, A.J.
West Miner, Vol. 51, No. 10, Oct. 1978, p. 72-73, Oct. 1978

1178 23 Article, Energy Policy

Outlook for eastern U.S. high sulfur coal
By Dragos, J.
Min Cong J, Vol. 64, No. 12, Dec. 1978, p. 23-28, Dec. 1978

1178 24(*) Book, Energy Policy, Environment

Perspectives on energy: Issues, ideas, and environmental dilemmas
By Ruedisili, L.C. / Firebaugh, M.W.
Oxford Univ. Press, New-York, New-York, United-States, 1978

1178 25 Article, Energy Policy, Combustion

Converting to coal in process plants
By Merritt, R.
Instrum Control Syst, Vol. 51, No. 10, Oct. 1978, p. 39-43, Oct. 1978

1178 26 Book, Energy Policy, Gasification

Factored Estimates for Eastern Coal Commercial Concepts. Interim report - Joint Department of Energy - Gas Research Institute Coal Gasification Program
C.F. Braun & Company, Alhambra, California
United-States Department of Energy, Washington, D.C., Sept. 1978
Report No.: NTIS.FE-2240-31

1178 27 Book, Energy Policy, Mining

Final Environmental Impact Statement. Coal loan guarantee program (P.L. 94 163)

United-States Department of Energy, Washington, D.C., July 1978
Report No.: NTIS.DOE/EIS-0004

1178 28 Article, Energy Policy

Coal
By Grierson, A.
Min., Annu. Rev., June 1978, Vol. 1978, p. 89, 91, 93, June 1978

1178 29 Article, Energy Policy, Properties

Problems of coal supply forecasting
By Gordon, R.L. Pennsylvania State University, University-Park, Pennsylvania
Mater. Soc., Vol. 2, Iss. 1-2, p. 39-44, 1978

1178 30 Article, Energy Policy

Impact of the Carter programme on the western European energy market
By Desprairies, P. L'Institute Francuise du Petrol, Rueil, Malmaison, France
Energy Policy, Vol. 6, No. 4, p. 285-293, Dec. 1978

1178 31 Article, Energy Policy

Energy outlook: Coal as a fuel
By Gambs, G.C. Ford, Bacon & Davis, Inc., New-York, New-York
Energy, Special Annual Issue, 1978, p. 21-24, 1978

1178 32 Book, Energy Policy, Properties, Gasification, Mining, Transportation

Coal: Its role in tomorrow's technology. A sourcebook on global coal resources
By Simeons, C.
Pergamon Press, Oxford, England, 1978

1178 33 Article, Energy Policy

Social and economic impacts of increased coal production
By Canfield, M. United-States General Accounting Office, Washington, District-of-Columbia
Energy (U.S.), Vol. 3, No. 4, 1978, p. 22-24, 1978

1178 34 Article, Energy Policy

Some reflections on future research on coal
By Owen, J. National Coal Board, Cheltenham, Gloucestershire, United-Kingdom

Comm. Eur. Communities, p. 224-233, 1978

1178 35 Book, Energy Policy

World energy: looking ahead to 2020
By World Energy Conference Conservation Commission, United-Kingdom
IPC Science and Technology Press, 274 pages, 1978

1178 36 Report, Energy Policy, Environment

Alternative fuel utilization
By Scheff, P.A. University of Illinois, Chicago, Illinois
Energy Utilities Environmental Health, p. 137-151, 1978

1178 37 German Article, Energy Policy

Research and development in the field of coal technology
By Peters, W.
Technische Mitteilungen, Vol. 71, No. 7, p. 358-364, 1978

1178 38 Conference proceedings, Energy Policy, Combustion

Critical paths to coal utilization
By Hill, G.R. Electric Power Research Institute, Palo-Alto, California
Scientific Problems of Coal Utilization, Proceedings of a Conference at West-Virginia University, Morgantown, West-Virginia, May 23/25, 1977, p. 1-12, 1978

1178 39 Conference proceedings, Energy Policy, Combustion, Gasification, Liquefaction

Status of coal utilization technology
By Gorin, E. Conoco Coal Development Company, Library, Pennsylvania
Scientific Problems of Coal Utilization, Proceedings of a Conference at West-Virginia University, Morgantown, West-Virginia, May 23/25, 1977, p. 202-218, 1978

1178 40 Article, Energy Policy

Comecon's mineral development potential and its implications for Canada
By Switucha, N.M. Department of Energy, Mines and Resources, Ottawa, Ontario
Min Bull, Iss. MR 183, 112p., Dec. 1978

1179 0 Article, Energy Policy

World coal production

By Griffith, E.D. / Clarke, A.W.
Scientific American, Jan. 1979, Vol. 240, No. 1, Jan. 1979

1179 1 Article, Energy Policy

Britain's Sir Derek Ezra tells why United States must reconsider its anti coal policy
By Guccione, E.
Coal Mining & Processing, June 1979, Vol. 16, Iss. 6, p. 36-39, June 1979

1179 2 Report, Energy Policy

A look into the long range involvement of Alberta in coal research
By Cloutier, G.G. Alberta Research Council, Edmonton, Alberta
The 31st Canadian Conference of Coal, The Coal Association of Canada, Banff, Alberta, Sept. 1979

1179 3 Book, Energy Policy

Federal Coal Management Report, Fiscal Year 1978

United-States Department of the Interior, Washington, D.C., March 1979

1179 4 Book, Energy Policy

Scientific and engineering manpower for fossil energy: supply, demand, quality
By Friedman, B.S.
United-States Department of Energy, Washington, D.C., Feb. 1979
Report No.: NTIS.ANL-FE-49635-1

1179 5 Book, Energy Policy

Coal conversion: status and trends

Warner-Eddison Associates, Inc., Cambridge, Massachusetts, Jan. 1979

1179 6 Article, Energy Policy

Outlook for Canadian coal in world markets
By Cobban, G.
Coal Miner, Vol. 4, No. 2, June 1979, p. 5-6, 8, 10, June 1979

1179 7 Article, Energy Policy

Potential utilization of Canadian thermal coal in Japan

By Lafleur, P.
C.I.M. Bull, Vol. 72, No. 802, Feb. 1979, p. 61-68, Feb. 1979

1179 8 Article, Energy Policy

Engineering a transition to coal
By Gallagher, J.M. / Zimmerman, R.G.
Nat Resour Forum, Vol. 4, No. 3, July 1979, p. 379-400, July 1979

1179 9 Book, Energy Policy

An assessment of national consequences of increased coal utilization, executive summary, Volume 1
Argonne National Laboratory, Argonne, Illinois
United-States Department of Energy, Washington, D.C., Feb. 1979
Report No.: NTIS.TID-29425

1179 10 Book, Energy Policy

An assessment of national consequences of increased coal utilization, executive summary, Volume 2
Argonne National Laboratory, Argonne, Illinois
United-States Department of Energy, Washington, D.C., Feb. 1979
Report No.: NTIS.TID-29425

1179 11 Book, Energy Policy, Combustion

The supply of energy to industry. Volume 1. Executive summary
By Prior, M. IEA Coal Research, London, United-Kingdom
International Energy Agency, Economic Assessment Service, London, England, Sept. 1979

1179 12 Book, Energy Policy, Gasification, Transportation

The supply of energy to industry. Volume II. Main report
By Prior, M. IEA Coal Research, London, United-Kingdom
International Energy Agency, Economic Assessment Service, London, England, Aug. 1979

1179 13 Book, Energy Policy

Project Register 13 79. Planning and Management
Mining Technology Clearing House, Staffordshire, United-Kingdom
IEA Coal Research, London, England, 1979

1179 14 Book, Energy Policy, Gasification, Liquefaction

The economics of coal based electricity generation
By Hemming, D.F. / Johnston, R. / Teper, M. IEA Coal Research, London, United-Kingdom
International Energy Agency, Economic Assessment Service, London, England, Nov. 1979

1179 15 Article, Energy Policy, Geology, Exploration

Will British Columbia develop its unused coal wealth?
By Shewchuk, M.
Can. Geogr., Vol. 97, Iss. 3, p. 32-37, Jan. 1979

1179 16 Article, Energy Policy, Gasification, Liquefaction

Coal research looks to a solid future
By Cunningham, C.
Processing, Vol. 25, Iss. 5, p. 43-45, May 1979

1179 17 Book, Energy Policy

Energy future: Report of the energy project at the Harvard Business School
By Stobaugh, R. / Yergin, D.
Harvard Business School, 1979

1179 18 Article, Energy Policy

Energy perspectives
By Hiller, H. Lurgi Mineraloltechnik GmbH, Frankfurt/Main, Germany
Chem. Econ. Eng. Rev., Vol. 11, Iss. 7, p. 7-10, July 1979

1179 19 Article, Energy Policy

Economics of fuel and chemicals from coal in the future
By Andrew, S.P.
Chem. Eng. (London), No. 345, p. 414-416, June 1979

1179 20 Article, Energy Policy, Gasification, Liquefaction

Synthetic fuels at the crossroads
By Stokes, C.A.
Technol. Rev., Vol. 81, No. 8, p. 25-33, Sept. 1979

1179 21 Article, Energy Policy

Yukon exploration targets have changed

By Craig, D.B.
West. Miner, Vol. 52, Iss. 2, p. 20-23, Feb. 1979

1179 22 Article, Energy Policy, Mining

Coal
By Aylsworth, J.A. Canada Department of Energy, Mines and Resources, Ottawa, Ontario
Can. Min. J., Vol. 100, No. 2, p. 136, 138, 140, 142-143, Feb. 1979

1179 23 Article, Energy Policy

Coal output could quadruple by 2000

Coal Miner, Vol. 4, No. 1, p. 5-7, March 1979

1179 24 Article, Energy Policy, Mining

Coal in Alberta: Thermal plants and exports

Coal Miner, Vol. 4, No. 1, p. 7, 9-11, March 1979

1179 25 Article, Energy Policy, Mining

Coal in British Columbia: Poised for expansion

Coal Miner, Vol. 4, No. 1, p. 12, March 1979

1179 26 Article, Energy Policy, Mining

Nova Scotia: New mines for Cape Breton

Coal Miner, Vol. 4, No. 1, p. 18, 20, March 1979

1179 27 Article, Energy Policy

Coal in transition: 1985 2000
By Griffith, E.D.
Min. Congr. J., Vol. 65, No. 2, p. 29-33, Feb. 1979

1179 28 Article, Energy Policy, Properties

Economic analysis of coal fired cement kilns
By Dorenfeld, A.C. / Oleksy, J.T. University of Minnesota, Minneapolis, Minnesota

Min. Eng. (New-York), Vol. 31, No. 4, p. 399-405, April 1979

1179 29 Article, Energy Policy

Coal research 2000: The 1978 Robens Coal Science Lecture
By Ezra, D. / Tregelles, P.G. / Dainton, D. Institution of Electrical Engineers, London, United-Kingdom
Min. Eng., Vol. 138, No. 209, p. 517-526, Feb. 1979

1179 30 Italian Article, Energy Policy, Geology

Energy: The only possible options
By Carolei, G. AMN, Genova, Italy
Energ. Nucl., Vol. 26, No. 3, p. 125-142, March 1979

1179 31 French, English Article, Energy Policy

Coal yesterday and tomorrow
By Erza, D. National Coal Board, London, United-Kingdom
Rev. Energ., Vol. 30, No. 317, Aug.-Sept. 1979, p. 675-684, Aug. 1979

1179 32 French Article, Energy Policy

What will be the price for energy tomorrow?
By Ippolito, M. Charbonnages de France, Paris, France
Rev. Energ., Vol. 30, No. 317, Aug.-Sept. 1979, p. 649-662, Aug. 1979

1179 33 Article, Energy Policy

National Energy Plan - success hinges on cooperation
By Savitz, M. United-States Department of Energy, Washington, District-of-Columbia
Specifying Engineer, Vol. 41, No. 6, p. 74-79, June 1979

1179 34 Article, Energy Policy

Brown coal/lignite production
By Dorling, I.
World Coal, Vol. 5, Iss. 11, Nov. 1979, p. 34, Nov. 1979

1179 35 Article, Energy Policy, Mining

The mining of bituminous coal in Germany - an industry of the future
By Bund, K. Ruhrkohle AG, Essen, Germany
Colliery Guard, Vol. 227, No. 4, p. 2-3, April 1979

1179 36 Article, Energy Policy

Importance of coal
By Viljoen, D.A. South-African Institute of Mining and Metallurgy, South-Africa
J S African Inst. Metall. Vol. 79, No. 16, p. 493-495, Nov. 1979

1179 37 Article, Energy Policy, Environment

Economic and environmental impact of back to contour reclamation legislation in Appalachia
By Bohm, R.A. / Schlottmann, A. University of Tennessee, Knoxville, Tennessee
Energy Syst. Policy, Vol. 3, No. 1, 1979, p. 1-15, 1979

1179 38 Article, Energy Policy

Solar/coal development: a regional balancing act
By Herbert, J.
Energy (U.S.), Vol. 4, No. 2, Spring 1979, p. 27-28, 1979

1179 39 Article, Energy Policy, Gasification, Liquefaction

Technical possibilities and economic prospects for coal refining
By Ziegler, A.A. / Holighaus, R.
Endeavour, Vol. 3, No. 4, p. 150-157, 1979

1179 40 Article, Energy Policy

Coal study
By Fells, I. / Williams, A. / Lucas, N. University of Leeds, Leeds, United-Kingdom
Energy Worlds, Vol. 62, p. 9-13, 1979

1179 41 Article, Energy Policy, Environment

Effect of environmental regulations on the General Electric research and development program for combustion turbines using coal derived fuels
By Dibelius, N.R. / Ketterer, R.J. / Manning, G.B. General Electric Company, Schenectady, New-York
ASME Paper, No. 79-GT-41, Meet. March 12-15, 1979, 9 p., March 1979

1179 42 Book, Energy Policy

Potential markets for thermal coal in Canada, 1978 2000: summary and conclusions

Canadian Energy Research Institute, Working paper 79-2, 35 p., June 1979

1179 43 Book, Energy Policy, Environment

Energy from the West, impact analysis report, Vol. 1, introduction and summary
By White, I.L. Science and Public Policy Program, Norman, Oklahoma
U.S. Env. Protection Agency, Washington, D.C., PB80-113-566, 160 p., March 1979
Report No.: EPA-600/7-79-082a

1179 44 Article, Energy Policy, Mining

Sub bituminous coal resources in the Western U.S.: Their exploitation and utilization
By Dunham, R.K.
Coll Guard Vol. 227, No. 9, p. 529-534, Sept. 1979

1179 45 Book, Energy Policy

Potential markets for thermal coal in Canada, 1978 2000, working paper
Canadian Energy Research Institute, Calgary, Alberta
Canadian Energy Research Institute, Working Paper 79-2, 321 p., June 1979

1179 46 Article, Energy Policy, Gasification

Coal utilization - industrial energy parks
By Mako, P.F. Fluor Engineers and Constructors, Inc., Irvine, California
Coal Tech (Houston), Vol. 2, No. 4, p. 39-52, 1979

1179 47 Article, Energy Policy

Coal: problems and prospects in the 1980's
By Miernyk, W.H. West-Virginia University, Morgantown, West-Virginia
J Energy Devel, Vol 5, No. 1, p. 9-18, 1979

1179 48 Article, Energy Policy

Determination of production capacity in the carbonization industry
By Akhtyrchenko, A.M.
Coke Chem, No. 1, p. 79-85, 1979

1179 49 Article, Energy Policy

Canada's coal industry on threshold of new development
By Aylsworth, J.A. Canada Department of Energy, Mines and Resources, Ottawa, Ontario
World Coal, Vol. 5, Iss. 11, p. 58-59, Nov. 1979

1179 50 Article, Energy Policy

Three modes of energy cost analysis: Then current, base year, and perpetual constant dollar
By Harnett, R.M. / Phung, D.L. Clemson University, Clemson, South-Carolina
Energy Systems and Policy, Vol. 3, No. 1, p. 61-72, 1979

1179 51 Article, Energy Policy

World coal trade
By Markon, G.
World Coal, Vol. 5, Iss. 11, p. 28-32, Nov. 1979

1179 52 Book, Energy Policy

Data sources and methods for industrial energy analysis
Energy and Environmental Analysis, Arlington, Virginia
United-States Department of Energy, 134p., Aug. 1979
Report No.: DOE/ET/2344-1

1179 53 Report, Energy Policy

Develop improved program monitoring systems and techniques for ERDA/Division of fossil demonstration plants, final task report, task 002
Booz, Allen & Hamilton, Inc., Bethesda, Maryland
United-States Energy Research and Development Administration, 16p., Oct. 1976
Report No.: FE-2343-2

1179 54 Conference proceedings, Energy Policy

Mitigating human services problems in energy impacted communities
By Davenport, J.A. / Davenport, J. University of Wyoming, Laramie, Wyoming
Proceedings of the 6th Annual UMR-DMR Conference on Energy, Oct. 16 - 18, 1979, University of Missouri-Rolla, Rolla, Missouri, p. 77-85, 1979

1179 55 Article, Energy Policy

The energy economy of Western Europe: A return to the use of indigenous resources
By Odell, P.R.
Geogr Tijdschr, Vol. 13, Iss. 5, p. 361-372, 1979

1179 56 Book, Energy Policy, Mining, Exploration

Energy resources in Colorado: coal, oil shale, and uranium
By Morse, J.G.
Westview Press, Boulder, Colorado, 373p., 1979

1179 57 Article, Energy Policy

Coal handling systems
By Lindly, E.C. Kansas State University, Manhattan, Kansas
Proc. 6th Annual UMR-DNR Converence on Energy, U. of Missouri-Rolla, p 121-125, 1979

1179 58 Article, Energy Policy, Geology

Columbias ambitious coal plans

Min Mag, Vol. 140, Iss. 6, p. 483, June 1979

1179 59 Book, Energy Policy

World coal resources
By Grossling, B.
The Financial Times Ltd., London, England, 1979

1179 60 Conference proceedings, Energy Policy

A comparison of the incentives used to stimulate energy production between the United States and Japan
By Fassbender, A.G. Battelle Pacific Northwest Laboratories, Richland, Washington
Alternative Energy Sources 2, Proc of the Miami Int Conf 2nd, Vol. 9, Conserv Econ and Policy, Miami-Beach, Florida, Dec. 10/13, 1979, p. 4045-4057, 1981

1179 61 Conference proceedings, Energy Policy, Gasification

Hydropower, coal, and coal gasification as an alternative energy source for Greece
By Bourodimos, E.L. State University of New-Jersey, Piscataway, New-Jersey
Alternative Energy Sources 2, Proc of the Miami Int Conf 2nd, Vol. 5, Geotherm Power/Energy Programs, Miami-Beach, Florida, Dec. 10/13, 1979, p. 2223-2256, 1981

1179 62 Conference proceedings, Energy Policy

A quantitative analysis of the impact of government regulations on the coal industry
By Amit, R.H. / Martin, S.E. / Naughton, M.C. Data Resources Inc., Lexington, Massachusetts
Alternative Energy Sources 2, Proc of the Miami Int Conf 2nd, Vol. 7, Hydrocarbon Convers, Miami-Beach, Florida, Dec. 10/13, 1979, p. 3103-3132, 1981

1180 0 Report, Energy Policy

World coal study (WOCOL) - country report for Canada
Coal Association of Canada, Calgary, Alberta
Reprint from The World Coal Study, Vol. 2, Chap. 2, 1980, 55 p., 1980

1180 1 Report, Energy Policy

Discussion paper on, liquid fuel options
Canada Department of Energy, Mines and Resources, Ottawa, Ontario
Department of Energy, Mines and Resources, 1980, 27 p., 1980
Report No.: EP 80-2E

1180 2 Report, Energy Policy

Discussion paper on coal
Canada Department of Energy, Mines and Resources, Ottawa, Ontario
Department of Energy, Mines and Resources, 1980, 47 p., 1980
Report No.: EP 80-1E

1180 3 Article, Energy Policy, Gasification, Liquefaction

Coal as an energy source: its impact on engineering planning
By Quig, R.H. Ebasco Services Inc., New-York, New-York
Chem. Eng. Prog., Vol. 76, No. 3, p. 47-54, March 1980

1180 4 Conference proceedings, Energy Policy, Gasification

Gasification and hydrogenation of coal - status and prospects
By Specks, R. Ruhrkohle AG, Essen, Germany
Fifth Int. Conf. on Coal Research, Dusseldorf, Federal Republic of Germany, Preprints, Vol. 2, p. 53-79, Sept. 1980

1180 5 Conference proceedings, Energy Policy, Gasification, Liquefaction

A review of research and development on coal conversion in the Republic of South Africa
By Sander, W.J. / Dekker, J. Fuel Research Institute of South-Africa, Pretoria, South-Africa
Fifth Int. Conf. on Coal Research, Dusseldorf, Federal Republic of Germany, Preprints, Vol. 2, p. 91-102, Sept. 1980

1180 6 Article, Energy Policy, Gasification, Liquefaction

Along the road to a synfuels industry
By Scott, F.E.
Coal Min Process, p. 49-60, Oct. 1980

1180 7 Report, Energy Policy

Inflation and the real cost of energy
By Long, R. IEA Coal Research, London, United-Kingdom
IEA Coal Research Economic Assessment Service, 41 p., Dec. 1980
Report No.: EAS G1/80

1180 8 Book, Energy Policy, Mining, Geology

1980 Coking Coal Manual

Agency of Industrial Science & Tech., Ministry of International Trade & Industry, Chiyodo-Ku, Japan, 372 p., 1980

1180 9 Article, Energy Policy, Properties

UBC Laboratory first of its kind in Canada to provide complete coal research facilities
By Poling, G. University of British-Columbia, Vancouver, British-Columbia
Can Min J, Vol. 101, No. 3, p. 40, March 1980

1180 10 Book, Energy Policy

Coal: a contemporary energy story
By Lindbergh, K. / Provorse, B.
Scribe Publishing Co., Seattle, Washington, 207 p., 1980

1180 11 Article, Energy Policy

Alternative future supplies of oil in Canada and their costs
By Slagorsky, Z.C. Canadian Energy Research Institute, Calgary, Alberta
Canadian Energy Research Institute, working paper 80-3, 42p., May 1980

1180 12 Book, Energy Policy

Enhanced oil recovery potential in Canada
By Prince, P.J. Canadian Gas Research Institute, Calgary, Alberta
Canadian Gas Research Institute, Study No. 9, 354 p., March 1980

1180 13 Article, Energy Policy

Competition and Canadian coal prices in the Japanese coking coal market
By Kittredge, P. / Sivertson, L. British-Columbia Ministry of Industrial & Small Business Development, Victoria, British-Columbia
CIM Bull, Vol. 73, No. 821, p. 100-109, Sept. 1980

1180 14 Article, Energy Policy

Physical and chemical characterization of Athabasca tar sands fly ash
By Ono, C.O. / Rempel, G.L. / Spink, D.R. University of Waterloo, Waterloo, Ontario
CIM Bull, Vol. 73, No. 820, p. 147-151, Aug. 1980

1180 15 Article, Energy Policy

Energy perspectives after oil and natural gas
By Temple, R. G. University of Aston, Birmingham, United-Kingdom
Gas Eng Mgmt, Vol. 20, No. 2, p. 74-76, Feb. 1980

1180 16 Article, Energy Policy, Exploration, Mining, Beneficiation

Canadian research in the areas of coal exploration, mining and preparation
By Fawcett, D.A. University of Alberta, Edmonton, Alberta
CIM Bull, Vol. 73, No. 822, p. 65-78, Oct. 1980

1180 17 Article, Energy Policy

New Mexico energy outlook remains bright
By McCaslin, J.C.
Oil Gas J, Vol. 78, No. 15, p. 175, April 1980

1180 18 Article, Energy Policy

Future of electricity based on coal
By Harrison, W.B. Southern Company Services, Inc., Birmingham, Alabama
Min. Congress J, Vol. 66, No. 6, p. 27-30, 52, June 1980

1180 19 Article, Energy Policy, Gasification

Status reports on synthetic fuels projects
By Gray, R.W. Memphis Fuel Gas Demonstration Plant, Memphis, Tennessee
Coal Process Tech, Vol. 6, p. 179-185, 1980

1180 20 Article, Energy Policy

Oil companies and coal: No conflict of interest
By Miskell, J.T.
Energy (Stamford Conn) Vol. 4, No. 3, p. 12-13, 1979

1180 21 Article, Energy Policy

Chemicals from coal
By Gibson, J. National Coal Board, London, United-Kingdom
Chem Br., Vol. 16, Iss. 1, p. 26-30, 1980

1180 22 Article, Energy Policy

Coal utilisation R & D
By Gibson, J.
Coll Guard, Vol. 228, No. 5, p. 116-168, May 1980

1180 23 Article, Energy Policy, Environment, Combustion

Impact of coal burning on turbo machinery for future large scale power generation
By Brown, D.
GEC J Sci Tech, Vol. 46, No. 1, p. 25-32, 1980

1180 24 Article, Energy Policy, Liquefaction

Liquid fuel supplies
By Perry, H.
Int J Energy Res, Vol. 4, No. 2, p. 103-107, 1980

1180 25 Article, Energy Policy

Oil and other energy resources for development: The Indonesian case
By Reksohadiprodjo, S. University of Colorado, Boulder, Colorado
J Energy Dev, Vol. 5, No. 2, p. 289-325, 1980

1180 26 Article, Energy Policy, Combustion

Present and future coal utilization at Du Pont
By Quillman, B. E.I. Du Pont De Nemours & Company, Inc., Wilmington, Delaware
Chem Eng Prog, Vol. 76, No. 3, p. 43-46, March 1980

1180 27 Article, Energy Policy

Research and development programme of the Chinese coal industry
By Ghose, A.K. Indian School of Mines, Dhanbad, India
Coll Guard, Vol. 228, Iss. 4, p. 27-28, April 1980

1180 28 Article, Energy Policy, Mining, Transportation

Utilities' approach to coal supply contracts

Coal Min Process, Sept. 1980, p. 101-103, Sept. 1980

1180 29 Article, Energy Policy

American Indians and national energy policy
By Pendley, R.E. / Kolstad, C.D. Los-Alamos Scientific Laboratory, University of California, Los-Alamos, New-Mexico
J Energy Dev, Vol. 5, No. 2, p. 221-251, 1980

1180 30 Article, Energy Policy

Energy use in steel industry and chemistry
By Hiratani, T.
Chem Econ Eng Rev, p. 7-14, Feb. 1980

1180 31 Book, Energy Policy, Combustion

Cogeneration technology alternatives study (ctas) United Technologies Corporation - final report.
United Technologies Corporation, South-Windsor, Connecticut
U.S. Department of Energy, 530p., Jan. 1980
Report No.: DOE/NASA/0030-80/6, NASA CR-159764, UTC FCR-1333

1180 32 Book, Energy Policy, Combustion

Cogeneration technology alternatives study (ctas) United Technologies Corporation, Final Report, Volume 1 - Summary Report
United Technologies Corporation, South-Windsor, Connecticut
U.S. Department of Energy, 120p., Jan. 1980
Report No.: DOE/NASA/0030-80/1, NASA CR-159759, UTC FCR-1333

1180 33 Article, Energy Policy

Siting energy facilities in the USA: Policies for the Western States
By Calzonetti, F.J. / Eckert, M.S. / Malecki, E.J.
Energy Policy, Vol. 8, No. 2, p. 138-152, June 1980

1180 34 Report, Energy Policy

Central Siberian brown coal as a potential source of power for European Russia

National Foreign Assessment Center. 6p., 1980
Report No.: SW 80-10006

1180 35 Book, Energy Policy

World coal study. Coal - bridge to the future
By Wilson, C.L. Massachusetts Institute of Technology, Cambridge, Massachusetts
Ballinger Publishing Co., 1980

1180 36 Article, Energy Policy, Liquefaction, Combustion

Western low rank coal development analysis
By Gronhovd, G.H. / Sondreal, E.A. / Kotowski, J.A. / Wiltsee, G.A. United-States Department of Energy, Grand-Forks, North-Dakota
Am Chem Soc Div Fuel Chem Prepr, Vol. 25, No. 1, p. 199-209, 1980

1180 37 Report, Energy Policy, Liquefaction

Past trends in synthetic fuels R & D
By Schlesinger, M.D. Pittsburgh Energy Research Center, Pittsburgh, Pennsylvania
Pittsburgh Energy Technology Center, Pittsburgh, Pennsylvania, 14p., 1980
Report No.: PETC/TR-80/4

1180 38 Article, Energy Policy

Technical and economic basis of the development of new methods for the intensive processing of coals
By Yatrov, S.N. / Zykov, V.M. / Speranskaya, G.V.
Solid Fuel Chem, Vol. 14, No. 6, p. 51-56, 1980

1180 39 Article, Energy Policy, Gasification, Liquefaction

Prospects of the development of the production of synthetic fuel in the USSR and abroad
By Kalechits, I.V.
Solid Fuel Chem, Vol. 14, No. 6, p. 7-18, 1980

1180 40 Article, Energy Policy

Horizontal divestiture of energy companies: regional market evidence on coal production and reserve ownership concentration ratios
By Page, W.P. West-Virginia University, Morgantown, West-Virginia
Energy (Oxford), Vol. 5, No. 12, p. 1245-1258, Dec. 1980

1180 41 Article, Energy Policy

Spatial equilibrium in the US coal industry
By Campbell, T.C. / Hwang, M.J. / Shahrokh, F. West-Virginia University, Morgantown, West-Virginia

Energy Econ, Vol. 2, No. 4, p. 230-236, Oct. 1980

1180 42 Report, Energy Policy, Gasification, Liquefaction, Mining

Current coal research and development projects in Canada
By Kanasy, J.E. CANMET, Ottawa, Ontario
CANMET, Energy, Mines and Resources Canada, 43p., Aug. 1980
Report No.: ERP/TID 80-19 (LS)

1180 43 Book, Energy Policy, Mining, Transportation, Environment

Future coal prospects: country and regional assessments - World Coal Study
By Greene, R.P. / Gallagher, J.M. / Wilson, C.L.
Ballinger Publishing Company, Cambridge, Massachusetts, 1980

1180 44 Report, Energy Policy, Mining, Geology

1982 Coal Manual - including general statistics, coking coal, thermal coal, anthracite, Japanese coal

Agency of Industrial Science & Tech, Ministry of Internation Trade & Industry. Chiyodo-Ku, Japan, 528p., 1982

1181 0 Article, Energy Policy

Coal calendar meetings and exhibitions
IEA Coal Research, London, United-Kingdom
IEA Coal Research, Coal Calendar, 1981, 100 pages, Jan. 1981

1181 1 Conference proceedings, Energy Policy

Coal - the world wide prospects
By Ezra, D. National Coal Board, London, United-Kingdom
A Symposium on Coal - The New Energy, Edmonton, Alberta, April 7/8, 1981, 6p., 1981

1181 2 Conference proceedings, Energy Policy

Coal in the Canadian context
By Page, G.T. Coal Association of Canada, Calgary, Alberta
A Symposium on Coal - The New Energy, Edmonton, Alberta, April 7/8, 1981, 5p., 1981

1181 3 Conference proceedings, Energy Policy, Combustion

The new market for steam coal
By Ashmore, G. National Coal Board, London, United-Kingdom

A Symposium on Coal - The New Energy, Edmonton, Alberta, April 7/8, 1981, 7p., 1981

1181 4 Conference proceedings, Energy Policy, Liquefaction, Gasification

The role of coal conversion in the UK energy future
By Gibson, J. National Coal Board, London, United-Kingdom
Thirty-Third Canadian Conference on Coal, Regina, Saskatchewan, Sept. 20/22, 1981, 7p., 1981

1181 5 Article, Energy Policy

Alternative energy technologies, a blueprint for progress
By Fernandes, J.H. Combustion Engineering, Inc., Windsor, Connecticut
Combustion, Vol 52, No. 7, p. 8-16, Jan. 1981

1181 6 Article, Energy Policy, Combustion

Future economy of electric power generated by nuclear and coal fired power plants
By King, M. / Yang, C.C. University of Southern California, Los-Angeles, California
Energy (Oxford), Vol. 6, No. 3, p. 263-275, March 1981

1181 7 Article, Energy Policy, Liquefaction, Gasification

The synfuel solution
By Zimmerman, M. D.
Mach Des, Vol. 53, No. 4, p. 62-67, Feb. 1981

1181 8 Article, Energy Policy, Gasification, Liquefaction

Synthetic Fuels: Promises and Problems
By Fryback, M.G. Sunoco Energy Development Company, Dallas, Texas
Chem Eng Prog, Vol. 77, No. 5, p. 39-43, 1981

1181 9 Article, Energy Policy, Combustion

Who needs what fuel for what?
By Essenhigh, R.H.
Chemtech, Vol. 1, No. 6, p. 351-359, 1981

1181 10 Article, Energy Policy

Coal scenario - AD 2000
By Atkinson, T. University of Nottingham, Nottingham, United-Kingdom
Min Eng (London), Vol. 140, No. 232, p. 489-499, Jan. 1981

1181 11 Article, Energy Policy

Coal conversion in Alberta
By McDonald, R.D. Alberta Energy and Natural Resources, Edmonton, Alberta
33rd Canadian Coal Conference, Regina, Saskatchewan, September 20-22, 1981, 10p., 1981

1181 12 Report, Energy Policy, Mining, Environment, Gasification, Liquefaction

Coal research: summary of coal research at Southern Illinois University, Carbondale, Illinois, selected projects through 1980
Southern Illinois University, Carbondale, Illinois
Southern Illinois University, Carbondale, Illinois, 159p., 1981

1181 13 Article, Energy Policy

Survey of Energy Resources 1980
By Bender, F.
Erdoel Kohle Erdgas Petrochem Ver Brennst Chem, Vol. 34, No. 4, p. 155-158, 1981

1181 14 Conference proceedings, Energy Policy, Liquefaction

Foreign coal liquefaction technology survey and assessment
By Patel, S.S. / Pay, D.T. Gilbert Associates, Inc., Reading, Pennsylvania
Symp. Papers, Advances Coal Utilization Technology IV, April 20-24, 1981, Denver, Colorado, p. 113-148, 1981

1181 15 Article, Energy Policy, Liquefaction

Alternative to OPEC oil - Investment costs and financing prospects
By Johnson, C. Lloyds Bank, London, United-Kingdom
Energy Policy, Vol. 9, No. 2, p. 85-98, June 1981

1181 16 Article, Energy Policy, Liquefaction

Alcohols: The old new fuels
By Stokes, C.A. / Waterland, G.D,
Technol Rev, Vol. 83, No. 7, p. 68-75, 77-79, June 1981

1181 17 Conference proceedings, Energy Policy, Geology

Coal supply south of the Sahara
By Neicas, M.G, University of D'Salaam, Dar-es-Salaam, Tanzania
Symp.Pap. Advances Coal Utilization Technology IV, April 20-24, 1981, Denver, Colorado, p. 571-579, 1981

1181 18 Article, Energy Policy

Coal and coke utilization as it affects US trade relations (or the expanded role of coal in world trade)
By Mason, W.W. Island-Creek Coal Company, Lexington, Kentucky
Min Eng (Littleton, Colo), Vol. 33, No. 8, p. 1239-1243, 1981

1181 19 Article, Energy Policy

Energy development in China - The need for a coherent policy
By Smil, V. University of Manitoba, Winnipeg, Manitoba
Energy Policy, Vol. 9, No. 2, p. 113-126, June 1981

1181 20 Article, Energy Policy, Geology

Energy resource utilization in the Pacific Basin countries
By Leibson, I.
Mining Congress Journal, Vol. 67, No. 9, p. 53-63, 1981

1181 21 Conference proceedings, Energy Policy

Progress towards synthetic fuel production in Australia and New Zealand
By Ward, R.G. / White, N. Broken Hill Proprietary Company Limited, NSW, Australia
AIChE Annual Meeting, New-Orleans, Louisiana, Nov. 8/12, 1981, 27p., 1981

1181 22 Article, Energy Policy, Properties

The modern state and prospects of scientific investigations of improving methods for evaluating coal as a raw material for coking in the member countries of Comecon
By Eremin, I.V. / Ol'fert, A.I.
Solid Fuel Chem, Vol. 15, No. 2, p. 133-139, 1981

1181 23 Conference proceedings, Energy Policy, Gasification, Liquefaction

The synthetic fuels industry in the United States problems and prospects
By Anderson, H.C. Dewey, Ballantine, Bushby, Palmer & Wood, Washington, District-of-Columbia
Proc 33rd Canadian Conference on Coal, Regina, Saskatchewan, Sept 20-22, 1981, p. 15-22, 1981

1181 24 Conference proceedings, Energy Policy

Opportunities for lignite development in Saskatchewan
By Moncur, R.H. Saskatchewan Power Corporation, Regina, Saskatchewan
Proc 33rd Canadian Conference on Coal, Regina, Saskatchewan, Sept 20-22, 1981, p. 53-56, 1981

1181 25 Conference proceedings, Energy Policy

Future prospects for Canada Japan energy relations
By Hiraiwa, G. Tokoyo Electric Power Co. Ltd., Tokoyo, Japan
Proc 33rd Canadian Conference on Coal, Regina, Saskatchewan, Sept 20-22, 1981, p. 111-113, 1981

1181 26 Article, Energy Policy, Gasification, Liquefaction, Combustion

Coal power, its promises and problems
By Mathur, V.K. University of New-Hampshire, Durham, New-Hampshire
Energy Commun, Vol. 7, No. 3, p. 201-263, 1981

1181 27 Article, Energy Policy, Combustion

Models for computer assisted coal purchasing
By Kingston, P.L. / Mancini, R.A. / Wright, R.H.
Comb Sci Technol,, Vol. 51, No. 10, p. 20-27, April 1981

1181 28 Conference proceedings, Energy Policy

The future of the coal industry
By Lusk, B. Mining & Reclamation Council of America, USA
Sixth International Technical Conf on Slurry Transportation, Las-Vegas, Nevada, March, 1981, p. 53-54, 1981

1181 29 Article, Energy Policy

Managing Canada's coal resources
By Bregazzi, M. Gulf Canada Resources Inc., Calgary, Alberta
CIM Directory, Vol. 15, p. 104-107, 1981

1181 30 Article, Energy Policy

British coal and world demand
By Gidwell, D. University College, Cardiff, United-Kingdom
Coll Guard, Vol 229, No. 1, p.9-13, Jan. 1981

1181 31 Article, Energy Policy

Challenges of coal development in the '80s
By Adair, J.L.
Mines Mag, Vol. 71, No. 3, p. 9-11, March 1981

1181 33 Report, Energy Policy, Combustion

Market aspects of an expansion of the international steam coal trade
By Gaskin, M. University of Aberdeen, Aberdeen, United-Kingdom
IEA Coal Research, 81p., Aug. 1981
Report No.: EAS G2 /81

1181 34 Article, Energy Policy

The rise in regulatory activity - and the fall in surface productivity
By Herhal, A.J. Synergic Resources Corporation, Bala-Cynwyd, Pennsylvania
Coal Min Process, Vol. 18, No. 7, p. 70-72, July 1981

1181 35 Conference proceedings, Energy Policy, Liquefaction, Environment, Mining, Beneficiation, Gasification

Coal technology in the 80's
By Reeve, D.A. CANMET, Ottawa, Ontario
Proc of the 64th CIC Coal Symp, Halifax, Nova-Scotia, May 31-June 3, 1981, Vol. 1, p. 1-5,, 1981

1181 36 Conference proceedings, Energy Policy, Liquefaction, Gasification, Mining

Coal utilization trends in Alberta
By du-Plessis, M.P. Alberta Research Council, Edmonton, Alberta
Proc of the 64th CIC Coal Symp, Halifax, Nova-Scotia, May 31-June 3, 1981, Vol. 1, p. 14-20,, 1981

1181 37 Conference proceedings, Energy Policy, Liquefaction, Combustion

Trends in utilization of British Columbia coal
By Pearson, D.E. David E. Pearson & Associates Ltd., Victoria, British-Columbia
Proc of the 64th CIC Coal Symp, Halifax, Nova-Scotia, May 31-June 3, 1981, Vol. 1, p. 21-22,, 1981

1181 38 Conference proceedings, Energy Policy, Combustion, Liquefaction

Trends in coal utilization in Saskatchewan
By Verma, A. Saskatchewan Oil & Gas Corporation, Regina, Saskatchewan
Proc of the 64th CIC Coal Symp, Halifax, Nova-Scotia, May 31-June 3, 1981, Vol. 1, p. 23-27,, 1981

1181 39 Conference proceedings, Energy Policy, Mining, Liquefaction, Transportation

Overview of the world coal study
By Wilson, C.L. Massachusetts Institute of Technology, Cambridge, Massachusetts
Proc of the 64th CIC Coal Symp, Halifax, Nova-Scotia, May 31-June 3, 1981, Vol. 1, p. 28-33,, 1981

1181 40 Conference proceedings, Energy Policy, Mining, Environment, Combustion, Liquefaction

The importance of research and development for the future role of coal in the world's energy economy
By Anderheggen, I.E.
Proc of the 64th CIC Coal Symp, Halifax, Nova-Scotia, May 31-June 3, 1981, Vol. 1, p. 34-39,, 1981

1181 41 Conference proceedings, Energy Policy, Gasification, Liquefaction

UK national and international perspectives on coal utilization
By Gibson, J. National Coal Board, London, United-Kingdom
Proc of the 64th CIC Coal Symp, Halifax, Nova-Scotia, May 31-June 3, 1981, Vol. 1, p. 40-46,, 1981

1181 42 Conference proceedings, Energy Policy, Combustion, Gasification, Liquefaction

Technical and economic prospects of coal conversion and utilization from the viewpoint of German coal industry
By Peters, W. / Schilling, H-D. Bergbau-Forschung GmbH, Essen, Germany
Proc of the 64th CIC Coal Symp, Halifax, Nova-Scotia, May 31-June 3, 1981, Vol. 1, p. 47-57,, 1981

1181 43 Conference proceedings, Energy Policy, Beneficiation, Combustion, Liquefaction

Utilization of Australian coal - national and international perspectives
By Lyall, K.D.
Proc of the 64th CIC Coal Symp, Halifax, Nova-Scotia, May 31-June 3, 1981, Vol. 1, p. 58-61,, 1981

1181 44 Article, Energy Policy

The Philippines' five year energy program: 1981 85
By Del-Rosario, A.V. Ministry of Energy, Manila, Philippines
Energy (Oxford), Vol. 6, No. 8, p. 789-800, Aug. 1981

1181 45 Article, Energy Policy

Australia's energy policy
By McHugh, K.P. Department of National Development and Energy, Canberra, Australia
Energy (Oxford), Vol. 6, No. 8, p. 803-807, Aug. 1981

1181 46 Article, Energy Policy

Energy policy and planning in India
By Mukherjee, S.K. Indian Institute of Management, Ahmedabad, India
Energy (Oxford), Vol. 6, No. 8, p. 823-851, Aug. 1981

1181 47 Article, Energy Policy

A review of plan for coal
By Ezra, D. National Coal Board, London, United-Kingdom
Min Eng, Vol. 140, No. 232, p. 479-487, 1981

1181 48 Article, Energy Policy

Coal: Filling the Polish Export Gap

Min J, Vol. 296, No. 7600, p. 297, 1981

1182 0 Article, Energy Policy

Coal supply, demand and impact on oil and gas evaluated in studies

Hydrocarbon Processing, Vol. 61, No. 1, p. 19, 1982

1182 1 Article, Energy Policy

1982: Another year of increased sales
By Wilkinson, J.F.
Coal Age, Vol. 87, No. 2, 8p. between p. 56-67, 1982

1182 2 Conference proceedings, Energy Policy

Western Canadian export thermal coal demand: balanced growth
By McGillivray, A.H. / Booth, G.P. Crows Nest Resources Limited, Calgary, Alberta
CIM 2nd Technical Conf on Western Canadian Coals, June 2-4, 1982, Edmonton, Alberta, 23p., 1982

1182 3 Conference proceedings, Energy Policy

Canadian facilities for coal research and development
By Butcher, S.G. Coal Mining Research Centre, Edmonton, Alberta
CIM 2nd Technical Conf on Western Canadian Coals, June 2-4, 1982, Edmonton, Alberta, 17p., 1982

1182 4 Article, Energy Policy, Liquefaction

Fundamental research in the European community on the chemical and physical properties of coal
By Hodek, W.
Fuel, Vol. 61, p. 570-572, June 1982

1182 5 Article, Energy Policy

Coal production running 8% higher than in 1980

Oil Week, Feb 22, p. 46, 1982

1182 6 Article, Energy Policy

Coal sales across Canada show 7.4% gain in January

Oil Week, May 31, p. 84, 1982

1182 7 Article, Energy Policy

Coal production runs counter to oil and gas

Oil Week, March 22, p. 48, 1982

1182 8 Report, Energy Policy

R&D Information Summary No. 2
Mining Technology Clearing House, Staffordshire, United-Kingdom
IEA, Mining Technology Clearing House, Staffordshire, United-Kingdom, 26p., May 1982
Report No.: MTCH 08963

1182 9 Article, Energy Policy

The Pacific rim coal trade outlook
By Nutt, M. Northern Miner, Vancouver, British-Columbia
Coal Miner, p. 9-10, March 1982

1182 10 Article, Energy Policy, Mining, Beneficiation, Transportation, Environment

Exports reach record high

Min Eng, Vol. 141, No. 5, p. 535-549, May 1982

1182 11 Article, Energy Policy

Coal: Global energy option for the 1980s
By Gallagher, J.M. Bechtel, San-Francisco, California
Hydrocarbon Proc, p. 72E-72V, March 1982

1182 12 Article, Energy Policy, Mining, Geology

Hungary turns to coal
By Crockett, R.N.
Min Mag, p. 358-361, May 1982

1182 13 Article, Energy Policy

Make commitments now: a message from The Coal Association of Canada
By Page, G.T.
Coal Miner, p. 4-6, March 1982

1182 14 Article, Energy Policy

Coal in Canada
By Schiller, E.A.
Min Mag, No. 7, p. 40-47, July 1982

1182 15 Article, Energy Policy

Declining demand for electricity and steel slow coal sales
By Stodden, J. McGraw-Hill World News, New-York, New-York
Coal Age, Vol. 87, No. 8, p. 42-43, Aug. 1982

1182 16 Article, Energy Policy

Foreign investors bank on U.S. coal
By Sullivan, A.M.
Coal Age, Vol. 87, No.7, p. 92-100, July 1982

1182 17 Article, Energy Policy

The recession takes a heavy toll on the coal industry
By Stodden, J.
Coal Age, Vol 87, No. 7, p. 56-57, July 1982

1182 18 Article, Energy Policy

AMC fights restrictions on western US federal coal leases

Western Miner, p. 44-46, Sept. 1982

1182 19 Conference proceedings, Energy Policy, Exploration, Transportation

Policies that impact on the development of Alberta's coal reserves
By Millard, V. Energy Resources Conservation Board, Calgary, Alberta
The Coal Association of Canada 34th Conf on Coal, Sept. 19-21, 1982, Toronto, Ontario, 20p., 1982

1182 20 Conference proceedings, Energy Policy

Nova Scotia: positive government policies for coal
By Barkhouse, R. Nova-Scotia Department of Mines and Energy, Halifax, Nova-Scotia
The Coal Association of Canada 34th Conf on Coal, Sept. 19-21, 1982, Toronto, Ontario, 11p., 1982

1182 21 Conference proceedings, Energy Policy

Canadian energy consumption in the seventies: trends and interpretation
By Steward, F.R. University of New-Brunswick, Fredericton, New-Brunswick
Pap Pres at 1982 Spring Technical Meeting of the Combustion Institute, Canadian Section, Banff, Alberta, May 9-12, 1982, 17p., 1982